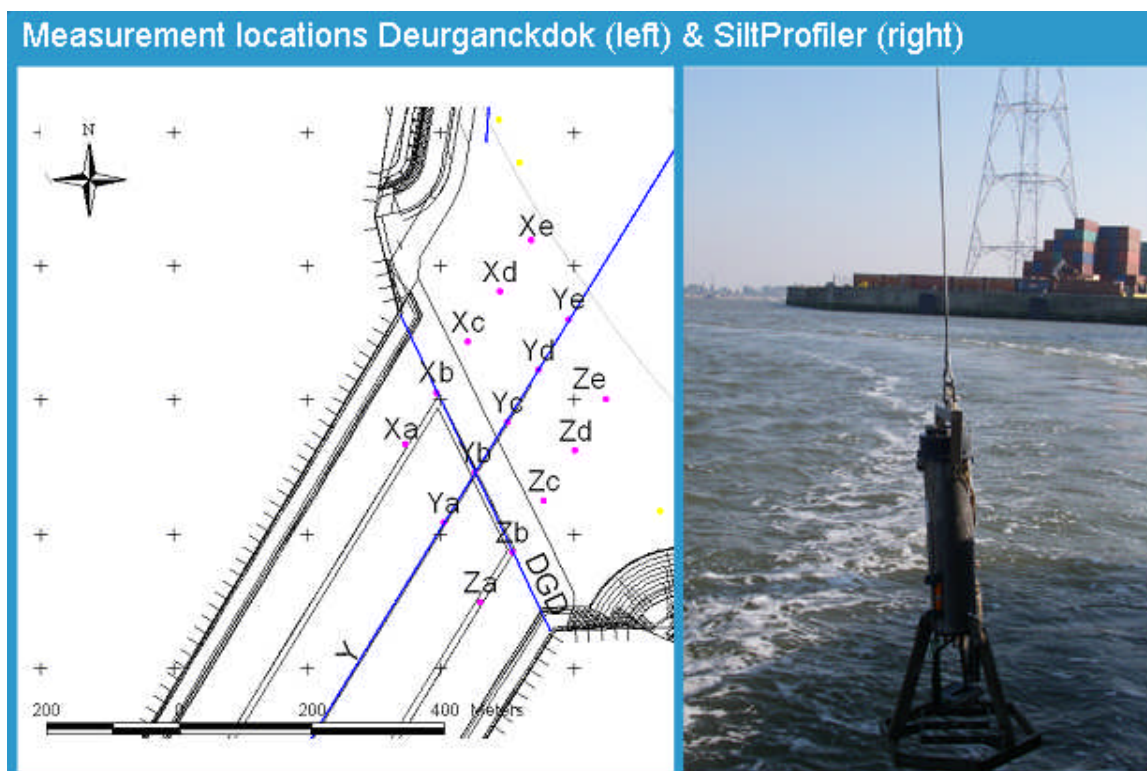




## Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing

Bestek 16EB/05/04



**Deelrapport 2.15:** 13u-meting SiltProfiler 12 maart 2008  
Ingang Deurganckdok

**Report 2.15:** Through Tide Measurement SiltProfiler 12 March 2008  
At the entrance Deurganckdok

12 August 2008

I/RA/11283/07.091/MSA



i.s.m.



WL | delft hydraulics

&





## Document Control Sheet

### Document Identification

<b>Title:</b>	Deelrapport 2.15: 13u meting SiltProfiler 12 maart 2008 – Ingang Deurganckdok
<b>Project:</b>	Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing
<b>Client</b>	Waterbouwkundig Laboratorium
<b>File reference:</b>	I/RA/11283/07.091/MSA
<b>File name</b>	K:\PROJECTS\11\11283 - Opvolging aanslibbing dgd\10-Rap\DGD2\2_15_RA07091_13h_SiltProfiler_080312\2_15_RA07091_SiltProfiler_12mrt2008_v20.doc

### Revisions

Version	Date	Author	Description
2.0	12/08/08	JCA	Final report
1.0	30/06/08	JCA	Concept

### Distribution List

Name	# ex.	Company/authorities	Position in reference to the project
Joris Vanlede	7	Waterbouwkundig Laboratorium	Client
Frederik Roose	3	Afdeling Maritieme Toegang	Client

### Approval

Version	Date	Author	Project manager	Commissioner
2.0	12/08/08	JCA	MBO	MSA
1.0	30/06/08	JCA	MBO	MSA





## TABLE OF CONTENTS

<b>1. INTRODUCTION .....</b>	<b>1</b>
1.1. THE ASSIGNMENT .....	1
1.2. PURPOSE OF THE STUDY .....	1
1.3. OVERVIEW OF THE STUDY .....	2
1.3.1. Reports.....	2
1.3.2. Measurement actions .....	3
1.4. STRUCTURE OF THE REPORT .....	4
<b>2. THE MEASUREMENT CAMPAIGN.....</b>	<b>5</b>
2.1. OVERVIEW OF THE STUDIED PARAMETERS .....	5
2.2. DESCRIPTION OF THE MEASUREMENT CAMPAIGN .....	8
2.3. THE EQUIPMENT .....	9
2.3.1. SiltProfiler .....	9
2.3.2. CTD-Diver .....	10
<b>3. COURSE OF THE MEASUREMENTS.....</b>	<b>11</b>
3.1. MEASUREMENT PERIODS .....	11
3.2. HYDRO-METEOROLOGICAL CONDITIONS DURING THE MEASUREMENT CAMPAIGN .....	11
3.2.1. Vertical tide during the measurements .....	11
3.2.2. Meteorological data.....	12
3.3. NAVIGATION INFORMATION .....	12
3.4. REMARKS ON DATA .....	13
<b>4. PROCESSING OF DATASETS .....</b>	<b>14</b>
4.1. CALIBRATION OF THE TURBIDITY SENSORS .....	14
4.2. METHODOLOGY OF PROCESSING THE SILTPROFILER DATA .....	14
4.3. TIMESERIES, DEPTH AVERAGES AND TRANSECTS .....	15
<b>5. PRELIMINARY ANALYSIS OF THE DATA .....</b>	<b>16</b>
<b>6. REFERENCES.....</b>	<b>17</b>

## APPENDICES

<b>APPENDIX A.</b>	<b>MEASUREMENT EQUIPMENT .....</b>	<b>23</b>
<b>APPENDIX B.</b>	<b>OVERVIEW OF MEASUREMENTS .....</b>	<b>25</b>
B.1	OVERVIEW OF THE MEASUREMENT LOCATIONS FOR THE WHOLE HCBS2 AND DEURGANCKDOK MEASUREMENT CAMPAIGN .....	26
B.2	OVERVIEW OF ALL MEASUREMENT LOCATIONS HCBS AND DEURGANCKDOK MEASUREMENT CAMPAIGN	30
<b>APPENDIX C.</b>	<b>TIDAL DATA .....</b>	<b>31</b>
<b>APPENDIX D.</b>	<b>NAVIGATION INFORMATION AS RECORDED ON SITE.....</b>	<b>33</b>
<b>APPENDIX E.</b>	<b>UNESCO PPS-78 FORMULA FOR CALCULATING SALINITY .....</b>	<b>38</b>
<b>APPENDIX F.</b>	<b>SILTPROFILER GRAPHS .....</b>	<b>40</b>
F.1	LOCATION XA .....	41
F.2	LOCATION XB .....	48
F.3	LOCATION XC .....	55
F.4	LOCATION XD .....	62
F.5	LOCATION XE .....	69
F.6	LOCATION YA .....	76
F.7	LOCATION YB .....	83
F.8	LOCATION YC .....	90
F.9	LOCATION YD .....	97
F.10	LOCATION YE .....	104
F.11	LOCATION ZA .....	111
F.12	LOCATION ZB .....	118
F.13	LOCATION ZC .....	125
F.14	LOCATION ZD .....	132
F.15	LOCATION ZE .....	139
<b>APPENDIX G.</b>	<b>DEPTH AVERAGE FIGURES AND TABLES.....</b>	<b>146</b>
G.1	TABLES .....	147
G.2	FIGURES .....	155
<b>APPENDIX H.</b>	<b>TIMESERIES .....</b>	<b>171</b>
<b>APPENDIX I.</b>	<b>TRANSECT SUSPENDED SEDIMENT CONCENTRATION DISTRIBUTION 187</b>	
<b>APPENDIX J.</b>	<b>OVERVIEW OF HCBS2 AND OPVOLGING AANSLIBBING DEURGANCKDOK REPORTS .....</b>	<b>224</b>

## LIST OF TABLES

TABLE 1-1: OVERVIEW OF DEURGANCKDOK REPORTS BETWEEN APRIL 2007 TILL MARCH 2008 .....	2
TABLE 2-1: POSITIONS OF THE MEASUREMENT POINTS FOR MARCH 12 <sup>TH</sup> 2008 AT THE ENTRANCE OF DEURGANCKDOK .....	9
TABLE 3-1: HIGH AND LOW TIDE AT LIEFKENSHOEK TIDAL GAUGE ON 12/03/2008 .....	11
TABLE 3-2: COMPARISON OF THE TIDAL CHARACTERISTICS OF 12/03/2008 WITH THE AVERAGE TIDE, THE AVERAGE NEAP TIDE AND THE AVERAGE SPRING TIDE OVER THE DECADE 1991-2000 FOR LIEFKENSHOEK .....	12

## LIST OF FIGURES

FIGURE 2-1: ELEMENTS OF THE SEDIMENT BALANCE .....	5
FIGURE 2-2: DETERMINING A SEDIMENT BALANCE.....	6
FIGURE 2-3: TRANSPORT MECHANISMS .....	7
FIGURE 2-4: MAP OF THE MEASUREMENT LOCATIONS IN THE VICINITY OF DEURGANCKDOK.....	8
FIGURE 2-5: HIGH RESOLUTION SILTPROFILER.....	10
FIGURE 4-1: EXAMPLE OF METHODOLOGY USED FOR THE TRANSITION OF SEAPPOINT TO LONG RANGE SENSOR FOR A GIVEN PROFILE.....	14



## 1. INTRODUCTION

### 1.1. The assignment

This report is part of the set of reports describing the results of the long-term measurements. This report is part of the set of reports describing the results of the long-term measurements conducted in Deurganckdok aiming at the monitoring and analysis of silt accretion. This measurement campaign is an extension of the study “Extension of the study about density currents in the Beneden Zeeschelde” as part of the Long Term Vision for the Scheldt estuary. It is complementary to the study ‘Field measurements high-concentration benthic suspensions (HCBS 2)’.

The terms of reference for this study were prepared by the ‘Departement Mobiliteit en Openbare Werken van de Vlaamse Overheid, Afdeling Waterbouwkundig Laboratorium’ (16EB/05/04). The repetition of this study was awarded to International Marine and Dredging Consultants NV in association with WL|Delft Hydraulics and Gems International on 10/01/2006. The project term was prolonged with an extra year from April 2007 till March 2008.

Waterbouwkundig Laboratorium– Cel Hydrometrie Schelde provided data on discharge, tide, salinity and turbidity along the river Scheldt and provided survey vessels for the long term and through tide measurements. Afdeling Maritieme Toegang provided maintenance dredging data. Agentschap voor Maritieme Dienstverlening en Kust – Afdeling Kust and Port of Antwerp provided depth sounding measurements.

The execution of the study involves a twofold assignment:

- Part 1: Setting up a sediment balance of Deurganckdok covering a period of one year, i.e. 04/2007 – 03/2008
- Part 2: An analysis of the parameters contributing to siltation in Deurganckdok

### 1.2. Purpose of the study

The Lower Sea Scheldt (Beneden Zeeschelde) is the stretch of the Scheldt estuary between the Belgium-Dutch border and Rupelmonde, where the entrance channels to the Antwerp sea locks are located. The navigation channel has a sandy bed, whereas the shallower areas (intertidal areas, mud flats, salt marshes) consist of sandy clay or even pure mud sometimes. This part of the Scheldt is characterized by large horizontal salinity gradients and the presence of a turbidity maximum with depth-averaged concentrations ranging from 50 to 500 mg/l at grain sizes of 60 - 100  $\mu\text{m}$ . The salinity gradients generate significant density currents between the river and the entrance channels to the locks, causing large siltation rates. It is to be expected that in the near future also the Deurganckdok will suffer from such large siltation rates, which may double the amount of dredging material to be dumped in the Lower Sea Scheldt.

Results from the study may be interpreted by comparison with results from the HCBS and HCBS2 studies covering the whole Lower Sea Scheldt. These studies included through-tide measurement campaigns in the vicinity of Deurganckdok and long term measurements of turbidity and salinity in and near Deurganckdok.

The first part of the study focuses on obtaining a sediment balance of Deurganckdok. Aside from natural sedimentation, the sediment balance is influenced by the maintenance and capital dredging works. This involves sediment influx from capital dredging works in the Deurganckdok, and internal relocation and removal of sediment by maintenance dredging works. To compute a sediment balance an inventory of bathymetric data (depth soundings), density measurements of the

deposited material and detailed information of capital and maintenance dredging works will be made up.

The second part of the study is to gain insight in the mechanisms causing siltation in Deurganckdok, it is important to follow the evolution of the parameters involved, and this on a long and short term basis (long term & through-tide measurements). Previous research has shown the importance of water exchange at the entrance of Deurganckdok is essential for understanding sediment transport between the dock and the Scheldt river.

## 1.3. Overview of the study

### 1.3.1. Reports

Reports of the project 'Opvolging aanslibbing Deurganckdok' between April 2007 till March 2008 are summarized in Table 1-1. An overview of the HCBS2 and 'Opvolging aanslibbing Deurganckdok' (between April 2006 till March 2007) reports are given in APPENDIX J.

This report, report 2.15, is one of set of reports for understanding the sediment transport between Deurganckdok and the river Scheldt, which belongs to the second part of this project.

Table 1-1: Overview of Deurganckdok Reports between April 2007 till March 2008

Report	Description
<b>Sediment Balance: Bathymetry surveys, Density measurements, Maintenance and construction dredging activities</b>	
1.10	Sediment Balance: Three monthly report 1/4/2007 - 30/06/2007 (I/RA/11283/07.081/MSA)
1.11	Sediment Balance: Three monthly report 1/7/2007 – 30/09/2007 (I/RA/11283/07.082/MSA)
1.12	Sediment Balance: Three monthly report 1/10/2007 – 31/12/2007 (I/RA/11283/07.083/MSA)
1.13	Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/07.084/MSA)
1.14	Annual Sediment Balance (I/RA/11283/07.085/MSA)
<b>Factors contributing to salt and sediment distribution in Deurganckdok: Salt-Silt (OBS3A) &amp; Frame measurements, Through tide measurements (SiltProfiling &amp; ADCP) &amp; Calibrations</b>	
2.09	Calibration stationary equipment autumn (I/RA/11283/07.095/MSA)
2.10	Through tide measurement Siltprofiler 23 October 2007 (I/RA/11283/07.086/MSA)
2.11	Through tide measurement Salinity Profiling winter (I/RA/11283/07.087/MSA)
2.12	Through tide measurement Sediview winter 11 March 2008 Transect I (I/RA/11283/07.088/MSA)
2.13	Through tide measurement Sediview winter 11 March 2008 Transect K (I/RA/11283/07.089/MSA)
2.14	Through tide measurement Sediview winter 11 March 2008 Transect DGD (I/RA/11283/07.090/MSA)
2.15	Through tide measurement Siltprofiler 12 March 2008 (I/RA/11283/07.091/MSA)
2.16	Salt-Silt distribution Deurganckdok summer (21/6/2007 – 30/07/2007) (I/RA/11283/07.092/MSA)
2.17	Salt-Silt distribution & Frame Measurements Deurganckdok autumn (17/09/2007 - 10/12/2007) (I/RA/11283/07.093/MSA)

Report	Description
2.18	Salt-Silt distribution & Frame Measurements Deurganckdok winter (18/02/2008 - 31/3/2008) (I/RA/11283/07.094/MSA)
2.19	Calibration stationary & mobile equipment winter (I/RA/11283/07.096/MSA)
<b>Boundary Conditions: Upriver Discharge, Salt concentration Scheldt, Bathymetric evolution in access channels, dredging activities in Lower Sea Scheldt and access channels</b>	
3.10	Boundary conditions: Three monthly report 1/4/2007 – 30/06/2007 (I/RA/11283/07.097/MSA)
3.11	Boundary conditions: Three monthly report 1/7/2007 – 30/09/2007 (I/RA/11283/07.098/MSA)
3.12	Boundary conditions: Three monthly report 1/10/2007 – 31/12/2007 (I/RA/11283/07.099/MSA)
3.13	Boundary conditions: Three monthly report 1/1/2008 – 31/03/2008 (I/RA/11283/07.100/MSA)
3.14	Boundary conditions: Annual report (I/RA/11283/07.101/MSA)
<b>Analysis</b>	
4.10	Analysis of Siltation Processes and Factors (I/RA/11283/07.102/MSA)

### 1.3.2. Measurement actions

Following measurements have been carried out during the course of this project:

1. Monitoring upstream discharge in the river Scheldt.
2. Monitoring Salt and sediment concentration in the Lower Sea Scheldt taken from on permanent data acquisition sites at Oosterweel, Prosperpolder and up- and downstream of the Deurganckdok.
3. Long term measurement of salt distribution in Deurganckdok.
4. Long term measurement of sediment concentration in Deurganckdok
5. Monitoring near-bed processes in the central trench in the dock, near the entrance as well as near the landward end: near-bed turbidity, near-bed current velocity and bed elevation variations are measured from a fixed frame placed on the dock's bed.
6. Measurement of current, salt and sediment transport at the entrance of Deurganckdok for which ADCP backscatter intensity over a full cross section are calibrated with the Sediview procedure and vertical sediment and salt profiles are recorded with the SiltProfiler equipment
7. Through tide measurements of vertical sediment concentration profiles -including near bed highly concentrated suspensions- with the SiltProfiler equipment. Executed over a grid of points near the entrance of Deurganckdok.
8. Monitoring dredging activities at entrance channels towards the Kallo, Zandvliet and Berendrecht locks
9. Monitoring dredging and dumping activities in the Lower Sea Scheldt

In situ calibrations were conducted on several dates to calibrate all turbidity and conductivity sensors (IMDC, 2006a, IMDC, 2007a and 2008f).

## **1.4. Structure of the report**

This report is the factual data report of the through tide measurements at Deurganckdok on the 12<sup>th</sup> of March, 2007. The first chapter comprises an introduction. The second chapter describes the measurement campaign and the equipment. Chapter 3 describes the course of the actual measurements. The measurement results and processed data are presented in Chapter 4, whereas chapter 5 gives a preliminary analysis of the data.



## 2. THE MEASUREMENT CAMPAIGN

### 2.1. Overview of the studied parameters

The first part of the study aims at determining a sediment balance of Deurganckdok and the net influx of sediment. The sediment balance comprises a number of sediment transport modes: deposition, influx from capital dredging works, internal replacement and removal of sediments due to maintenance dredging (Figure 2-1).

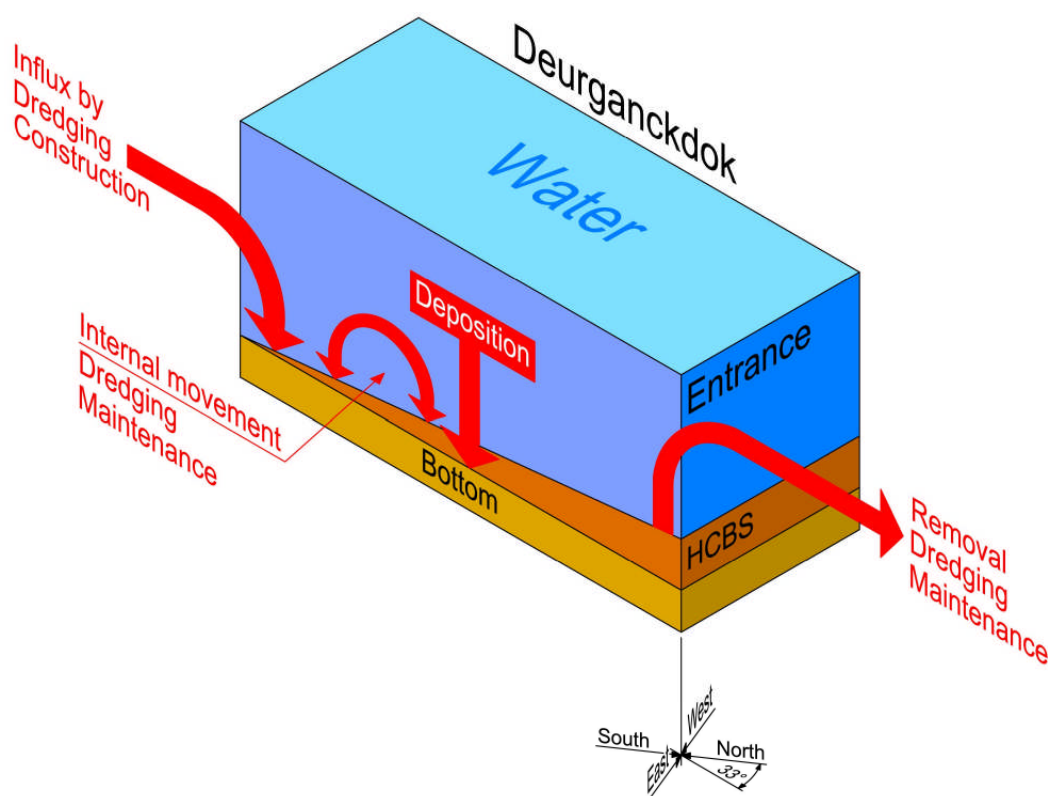


Figure 2-1: Elements of the sediment balance

A net deposition can be calculated from a comparison with a chosen initial condition  $t_0$  (Figure 2-2). The mass of deposited sediment is determined from the integration of bed density profiles recorded at grid points covering the dock. Subtracting bed sediment mass at  $t_0$  leads to the change in mass of sediments present in the dock (mass growth). Adding cumulated dry matter mass of dredged material removed since  $t_0$  and subtracting any sediment influx due to capital dredging works leads to the total cumulated mass entered from the Scheldt river since  $t_0$ .

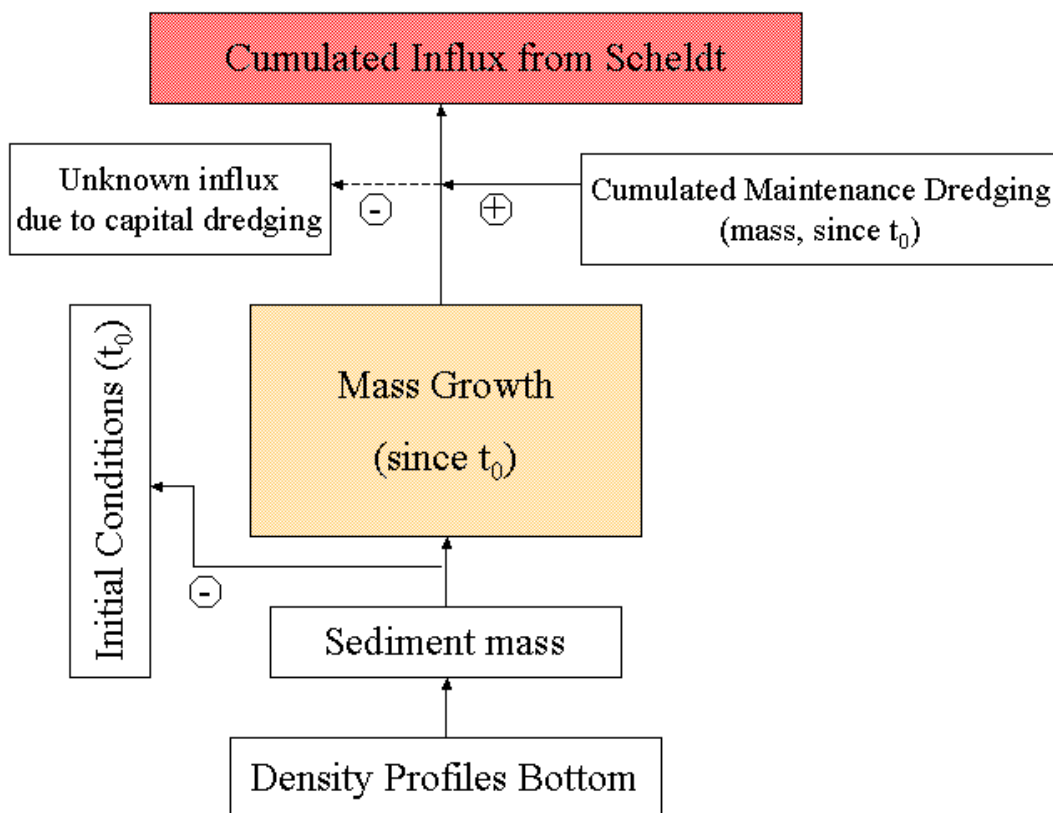


Figure 2-2: Determining a sediment balance

The main purpose of the second part of the study is to gain insight in the mechanisms causing siltation in Deurganckdok. The following mechanisms will be aimed at in this part of the study:

- Tidal prism, i.e. the extra volume in a water body due to high tide
- Vortex patterns due to passing tidal current
- Density currents due to salt gradient between the Scheldt river and the dock
- Density currents due to highly concentrated benthic suspensions

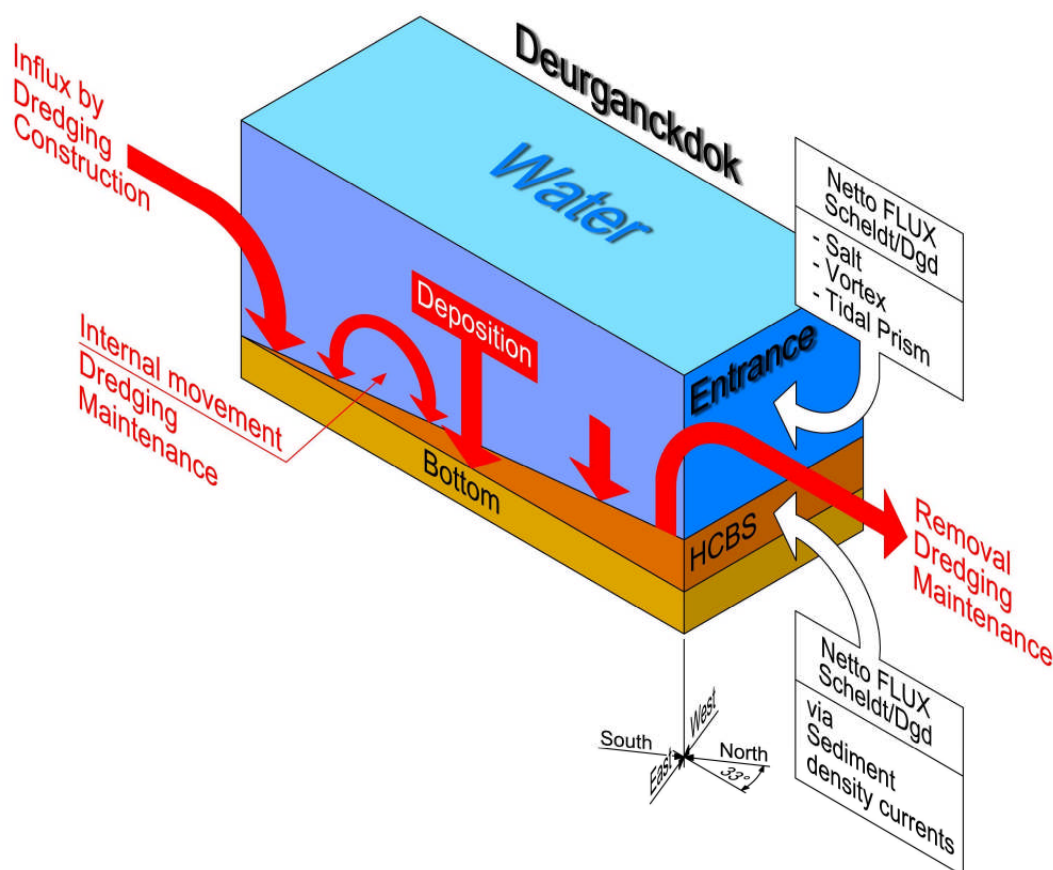


Figure 2-3: Transport mechanisms

These aspects of hydrodynamics and sediment transport have been landmark in determining the parameters to be measured during the project. Measurements will be focussed on three types of timescales: one tidal cycle, one neap-spring cycle and seasonal variation within one year.

Following data are being collected to understand these mechanisms:

- Monitoring upstream discharge in the Scheldt river.
- Monitoring Salt and sediment concentration in the Lower Sea Scheldt at permanent measurement locations at Lillo, Oosterweel, up- and downstream of the Deurganckdok.
- Long term measurement of salt and suspended sediment distribution in Deurganckdok.
- Monitoring near-bed processes (current velocity, turbidity, and bed elevation variations) in the central trench in the dock, near the entrance as well as near the current deflecting wall location.
- Dynamic measurements of current, salt and sediment transport at the entrance of Deurganckdok.
- Through tide measurements of vertical sediment concentration profiles -including near bed high concentrated benthic suspensions.
- Monitoring dredging activities at entrance channels towards the Kallo, Zandvliet and Berendrecht locks as well as dredging and dumping activities in the Lower Sea Scheldt.

## 2.2. Description of the measurement campaign

Turbidity, salinity and temperature measurements were conducted on the 12<sup>th</sup> of March from 8h00 MET till 21h00 MET.

The purpose of the measurements was to find fluid mud layers and to determine the distribution of suspended sediment over the dock's entrance area during a complete tidal cycle. For measurements in Deurganckdok the terms 'left bank' and 'right bank' will be used to address the North quay wall and South quay wall respectively.

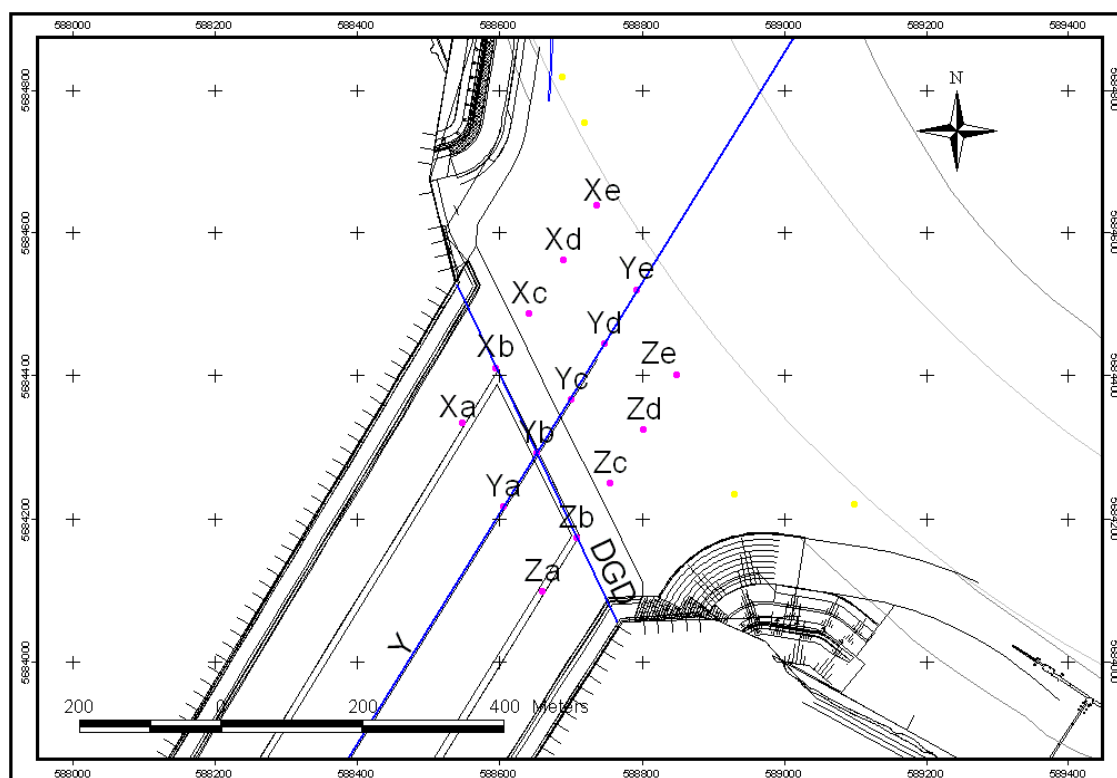


Figure 2-4: Map of the measurement locations in the vicinity of Deurganckdok

From the survey vessel Stream a measurement cycle was completed sailing three parallel transects (X, Y and Z) at the entrance of the Deurganckdok (Figure 2-4). A high resolution turbidity profile was measured with the SiltProfiler at 5 locations on each transect.

An overview with all the measurement locations of the SiltProfiler measurements can be found in Table 2-1.

Table 2-1: Positions of the measurement points for March 12<sup>th</sup> 2008 at the entrance of Deurganckdok.

<b>Measurement point</b>	<b>Bank</b>	<b>Easting (UTM31 ED50)</b>	<b>Northing (UTM31 ED50)</b>	<b>Average Depth [m TAW]</b>
Xa	Left bank	588549	5684335	-13.9
Xb	Left bank	588596	5684411	-13.4
Xc	Left bank	588643	5684486	-13.3
Xd	Left bank	588690	5684562	-13.8
Xe	Left bank	588737	5684638	-13.7
Ya	Center	588606	5684217	-14.7
Yb	Center	588653	5684293	-13.7
Yc	Center	588700	5684368	-13.7
Yd	Center	588747	5684444	-13.9
Ye	Center	588793	5684520	-16.2
Za	Right bank	588662	5684099	-15.2
Zb	Right bank	588709	5684174	-13.8
Zc	Right bank	588756	5684250	-13.7
Zd	Right bank	588803	5684326	-13.7
Ze	Right bank	588850	5684402	-13.9

## 2.3. The equipment

### 2.3.1. SiltProfiler

The SiltProfiler has the following general specifications. The data collection is executed locally (i.e. on the profiler) by an integrated data logger. Sensor cables are kept very short and connect to the interfacing electronics of the data logger. The data logger collects the sensor signals and records the same in internal memory. Simultaneously the data are transmitted via a serial communication cable (if connected). Emphasis is on fast data collection and less on the absolute accuracy of the sensors.

In case the communication cable is not connected, the data can be retrieved upon recovery of the profiler via a short range wireless connection. As soon as the profiler breaks the water surface the data can be accessed and transferred to the operator's PC, whereupon the profiler is ready for a new profiling session. The retrieved profile data are visualised immediately in depth profile graphs. This operational mode requires no electrical cables to be attached to the profiler. However, a small box (diameter in the order of 20 cm) with electronics, data logger and batteries is attached to the profiler. The hoisting cable is attached to sturdy structure above the electronics box.

The sensors are:

- one Conductivity and Temperature sensor with measuring ranges adequate for use in seawater.
- multiple turbidity sensors to cover the entire range of 0 to 35 000 mg/L suspended solids: 2 transmittance sensors (type FOSLIM) are used, in combination with a Seapoint turbidity sensor (0-400 mg/l).
- one pressure sensor.



*Figure 2-5: High Resolution SiltProfiler*

As such the SiltProfiler is anticipated to rapidly profile the suspended sediment concentration as well as the salinity structure. The SiltProfiler can measure at variable speed up to 100 measurements per second (100 Hz).

The data collection rate is adjustable to optimise for the required vertical / temporal resolution. Further, the data acquisition rate will be depth dependent in such a way that the rate is low in the upper section of the profile and higher in the lower section. Both rates and the changeover depth are user adjustable. The duration of data retrieval depends upon the amount of collected data and the effective data transfer rate.

### **2.3.2. CTD-Diver**

A CTD-Diver was used to measure depth, conductivity and temperature. This instrument was placed on the SiltProfiler as backup for the SiltProfiler. During the measurement campaign all sensors (temperature, pressure and conductivity) were set to record every second.

The technical details about the CTD-Diver are given in APPENDIX A.

### 3. COURSE OF THE MEASUREMENTS

#### 3.1. Measurement periods

SiltProfiles were taken at all 15 locations. 180 profiles were successfully measured with the SiltProfiler.

#### 3.2. Hydro-meteorological conditions during the measurement campaign

##### 3.2.1. Vertical tide during the measurements

The vertical tide was measured at Liefkenshoek tidal gauge. Graphs of the tide at Liefkenshoek on the 12<sup>th</sup> of March 2008 can be found in APPENDIX C. Table 3-1 lists the most important characteristics (high and low tide) of the tide at those gauges on March 12<sup>th</sup> of 2008.

Table 3-1: High and Low Tide at Liefkenshoek Tidal Gauge on 12/03/2008

<b>Liefkenshoek Tidal Gauge</b>		
<i>12 March 2008</i>		
	<i>Time [MET]</i>	<i>Water level [m TAW]</i>
<b>LW (1)</b>	00:50	0.45
<b>HW (2)</b>	06:00	6.49
<b>LW (3)</b>	13:00	0.93
<b>HW (4)</b>	18:20	6.36

In Table 3-2 the tidal characteristics of the tide on the 12<sup>th</sup> of March 2008 are compared to the average tide over the decade 1991-2000 (AMT, 2003).

Table 3-2: Comparison of the tidal characteristics of 12/03/2008 with the average tide, the average neap tide and the average spring tide over the decade 1991-2000 for Liefkenshoek.

	<b>Neap tide (1991 - 2000)</b>	<b>Avg Tide (1991 - 2000)</b>	<b>Spring Tide (1991 - 2000)</b>	<b>Tide 12/03/2008</b>
<b>Water level [m TAW]</b>				
LW (1)	0.39	0.05	-0.18	0.45
HW (2)	4.63	5.19	5.63	6.49
LW (3)	-	-	-	0.93
HW (4)	-	-	-	6.36
<b>Tidal difference [m]</b>				
Rising (1 to 2)	4.24	5.14	5.81	6.04
Falling (2 to 3)	4.24	5.14	5.81	5.56
Rising (3 to 4)	-	-	-	5.43
<b>Duration [hh:mm]</b>				
Rising (1 to 2)	5:59	5:34	5:16	5:10
Falling (2 to 3)	6:40	6:50	7:02	7:00
Rising (3 to 4)	-	-	-	5:20
Tide (1 to 3)	12:39	12:24	12:18	12:10
Tide (2 to 4)	-	-	-	12:20
<b>Tidal coefficient</b>				
Rising (1 to 2)	0.82	1.00	1.13	1.18
Falling (2 to 3)	0.82	1.00	1.13	1.08
Rising (3 to 4)	-	-	-	1.06

The tidal coefficients from 1.06 up to 1.18 for the measured tide of the 12<sup>th</sup> of March 2008 indicate that this tide has a larger tidal range than the average tide for the decade of 1991-2000, and can be classified as spring tide.

### 3.2.2. Meteorological data

Meteorological data at Deurne was obtained from the Weather Underground website (Wunderground, 2008).

The weather on the 12<sup>th</sup> of March 2008 was stormy and the wind blew from the west at an average velocity of 29 km/h with maximal gust velocity of 86 km/h. The air temperature varied between 6 and 10°C. The sky was cloudy with some precipitation.

### 3.3. Navigation information

An overview of the navigation at the measurement location is given in APPENDIX D.



### **3.4. Remarks on data**

The total of 180 profiles were successfully taken with the SiltProfiler. Only the salinity data of the SiltProfiler was unreliable and was replaced by the salinity of the CTD-Diver, which was placed on the SiltProfiler during the measurement campaign.

## 4. PROCESSING OF DATASETS

### 4.1. Calibration of the turbidity sensors

A crucial aspect of the accuracy and reliability of the data concerns the calibration of the instruments before the measurement campaign. The calibration procedure is described in calibration report 2.09 (IMDC, 2008f).

### 4.2. Methodology of processing the SiltProfiler data

SiltProfiler data was validated and screened for outliers. Raw data were filtered.

Salinity was calculated using the temperature, conductivity and pressure in the pps-78 formula (Unesco, 1991 & IMDC, 2002)(see APPENDIX E). Turbidity values were converted to suspended sediment concentration.

The SiltProfiler contains 3 turbidity sensors. The Seapoint sensor is used for low concentrations (0-700 mg/l), the Long Range Extinction sensor covers the range between 400 mg/l – 5000 mg/l, after which the Short Range Extinction sensor (4000 mg/l – 35000 mg/l) takes over. All 3 sensors log simultaneously during a measurement. The switchover between two sensors in the processing is done as follows:

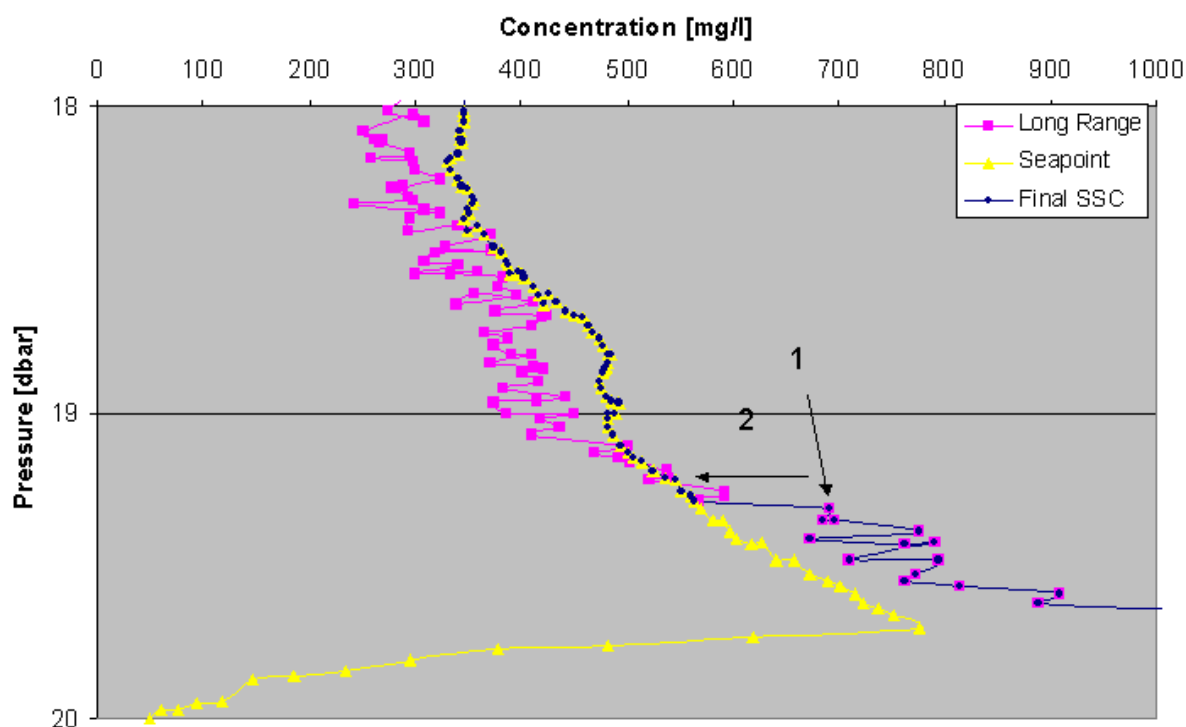


Figure 4-1: Example of Methodology used for the transition of Seapoint to Long Range Sensor for a given profile

- Between Seapoint and Long Range Sensor the transition threshold is not fixed. Figure 4-1 visualizes the methodology. As the SSC measured by the Long Range Sensor exceeds 70

mg/l over the SSC measured by the Seapoint Sensor (1), a back track is performed to find at what measurement the Long Range SS concentration exceeds the Seapoint SS concentration.(2). The nearest measurement is chosen as transition point, as is shown by the 'Final SSC' line, which shows. This is done as the Long Range SS concentration slightly underestimates low concentrations.

- Between the long range and short range extinction sensor the transition point is fixed. The long range sensor saturates at a concentration of 4964 mg/l, so the transition is fixed at a concentration of 4400 mg/l, leaving a margin of  $\pm 500$  mg/l between the transition point and the maximum measurable concentration of the Long Range Sensor.

This method was developed based on a high number of measurements that showed a high variation in SS concentration performed on 21/03/06 in Deurganckdok.

A datasheet was produced that contains a plot showing the change in temperature, salinity and suspended sediment concentration versus depth for each verified profile

Apart from general metadata (date, time, time after HT, coordinates, surface elevation) the water-bottom interface is given as the lowest elevation at which SiltProfiler measured sediment concentration within its range, and the detection of the soft and hard bottom (210 kHz / 33 kHz) as was measured by the dual frequency echosounder.

A table contains measurements with regular spreading in time taken from the profile.

The depth averaged values for temperature, salinity and suspended sediment concentration are calculated.

The "NaN" (Not a Number) –value is used to indicate a no data value (measurement outside range of instrument or not recording).

The SiltProfiler datasheets are given in APPENDIX F.

### 4.3. Timeseries, Depth Averages and Transects

Timeseries were visualised for all locations. Colourplots of temperature and suspended sediment concentration, as measured by SiltProfiler can be found in APPENDIX H. In these plots the bottom (as detected by the SiltProfiler) is shown as a black surface.

These plots show a contoured timeseries of the measured profiles on each location in time and depth. In between two vertical profiles colorcodes are shaded from one to the next. The detection of the hard bottom or mud-water interface by the instrument is indicated on the contourplot as a black mask.

Also depth-averaged values were tabularised. Depth-averages were computed for SiltProfiler (Suspended Sediment Concentration & Temperature) data per location.

For each of these parameters the depth-average is given for:

- Total depth
- Top 50% of watercolumn – bottom 50% of watercolumn

This information is illustrated in figures and tables in APPENDIX G.

The spatial suspended sediment concentration distribution for transects X, Y and Z are given for each cycle. In these graphs the SSC distribution is shown as a cross-section consisting of all 5 profiling locations ( a, b, c, d and e) on each transect (X, Y and Z) within one measurement cycle. Point a is always given on the left hand side. These figures are given in APPENDIX I.

## 5. PRELIMINARY ANALYSIS OF THE DATA

Concerning the suspended sediment concentrations, the depth averages range from 48 mg/l up to 310 mg/l. The maximal and minimal depth average concentrations occur at Za around HW and around 4:30 after HW. In general the average SS concentrations taken over several points during the measurement campaign show a spatial pattern: an increase in average SS concentration from the dock to the river Scheldt and an increase from transect X to transect Z.

Compared to previous SiltProfiler measurement campaigns at the entrance of Deurganckdok higher SS concentrations have been observed during this measurement campaign. This can be partially explained by the stormy weather and spring tide event. In general the previous SiltProfiler measurement campaign on 26<sup>th</sup> September of 2006 (IMDC, 2007n) and on 23<sup>rd</sup> October of 2007 (IMDC, 2008g) have a similar magnitude of measured SS concentration. The overall concentrations measured on 21<sup>st</sup> March of 2006 (IMDC, 2006h) were roughly twice as high as campaigns in September and October.

The density of a mud layer at locations Xa, Xb, Ya and Za was low enough to allow the SiltProfiler to penetrate, although the sediment concentration was higher than the upper limit of the SiltProfiler range (+/- 35 g/l).

Depth average salinity ranges from 4.9 to 7.7 ppt. The maximal and minimal depth average salinity value occurs at Xe around 2:00 after HW and around LW. The points located nearby the river Scheldt have a higher salinity range than the points located in the dock.

Average temperature of the water was about of 8°C over all the locations.

## 6. REFERENCES

AMT (2003). Intern rapport, Getij-informatie Scheldebekken 1991-2000.

IMDC (2002). Studie Densiteitsstroming in het kader van LTV Schelde, Stroom- en saliniteitsmeting t.h.v. Deurganckdok uitgevoerd op 12/06/2002, I/RA/11216/02.042/CMA.

IMDC (2005a). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 1: Test survey 17/02/2005, I/RA/11265/05.008/MSA.

IMDC (2005b). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.1: Deurganckdok 17/02/2005, I/RA/11265/05.009/MSA.

IMDC (2005c). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.2: Zandvliet 17/02/2005, I/RA/11265/05.010/MSA.

IMDC (2005d). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.3: Liefkenshoek 17/02/2005, I/RA/11265/05.0011/MSA.

IMDC (2005e). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.4: Schelle 17/02/2005, I/RA/11265/05.0012/MSA.

IMDC (2005f). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.5: Deurganckdok 16/02/2005, I/RA/11265/05.013/MSA.

IMDC (2005g). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.6: Kallosluis 18/02/2005, I/RA/11265/05.014/MSA.

IMDC (2005h). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.7: Near bed continious monitoring: february 2005, I/RA/11265/05.015/MSA.

IMDC (2005i). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 3: Settling velocity INSSEV february 2005, I/RA/11265/05.016/MSA.

IMDC (2005j). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 4: Cohesive sediment properties february 2005, I/RA/11265/05.017/MSA

IMDC (2005k). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.1: Overview of ambient conditions in the river Scheldt January-June 2005, I/RA/11265/05.018/MSA.

IMDC (2005l). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.2: Overview of ambient conditions in the river Scheldt July-December 2005, I/RA/11265/05.019/MSA.

IMDC (2006a) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 6.1 Calibration Winter 15 March & 14 April 2006? I/RA/11291/06.092/MSA.

IMDC (2006b) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 7.1 21 March 2006 Scheldewacht – Deurganckdok, I/RA/11291/06.094/MSA.

IMDC (2006c) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 7.2 22 March 2006 Parel 2 – Deurganckdok (downstream), I/RA/11291/06.095/MSA.

IMDC (2006d) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 7.3 22 March 2006 Laure Marie – Liefkenshoek, I/RA/11291/06.096/MSA.

IMDC (2006e) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 7.4 23 March 2006 Parel 2 – Schelle, I/RA/11291/06.097/MSA.

IMDC (2006f) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 7.5 23 March 2006 Laure Marie – Deurganckdok (downstream), I/RA/11291/06.098/MSA.

IMDC (2006g) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 7.6 23 March 2006 Veremans – Waarde, I/RA/11291/06.099/MSA.

IMDC (2006h) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.1 Opmeting stroming en zout- en sedimentbeweging aan de ingang van het Deurganckdok (SiltProfiler), I/RA/11283/06.087/WGO.

IMDC (2006i) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.3. Opmeting stroming en zout-en sedimentbeweging aan de ingang van het Deurganckdok (ADCP), I/RA/11283/06.110/BDC

IMDC (2006j). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 8.1: Vaste meetopstelling in zake bodemgedrag, I/RA/11291/06.100/MSA.

IMDC (2006k) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.6 Zout en slibverdeling Deurganckdok 17/03/2006 – 23/05/2006, I/RA/11283/06.121/MSA.

IMDC (2006l) Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.3 Overview of ambient conditions in the river Scheldt – Januari-June 2006 (I/RA/11291/06.089/MSA), in opdracht van AWZ.

IMDC (2006m): Studie van de stromingsvelden en sedimentuitwisseling aan de ingang van Deurganckdok. Current and Sediment flux measurements November 17th 2005 (I/RA/15030/06.021/BDC).

IMDC (2006n). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 9: Valsnelheid slib – INSSEV, I/RA/11291/06.102/MSA, in opdracht van AWZ.

IMDC (2006o). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 2.7: Silt distribution and frame measurements 15/07/2006 – 31/10/2006. (I/RA/11291/06.122/MSA).

IMDC (2006p). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.3 Overview of ambient conditions in the river Scheldt – Januari-June 2006 (I/RA/11291/06.089/MSA), in opdracht van AWZ.

IMDC (2007a). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 6.2 Summer calibration and Final report, I/RA/11291/06.093/MSA.

IMDC (2007b). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 5.4 Overview of ambient conditions in the river Scheldt – July-December 2006 (I/RA/11291/06.089/MSA), in opdracht van AWZ.

IMDC (2007c). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.1 Through tide Measurement Sediview & Siltprofiler 27/9 Stream - Liefkenshoek (I/RA/11291/06.104/MSA), in opdracht van AWZ.

IMDC (2007d). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.2 Through tide Measurement Sediview 27/9 Veremans - Raai K (I/RA/11291/06.105/MSA), in opdracht van AWZ.

IMDC (2007e). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.3 Through tide Measurement Sediview & Siltprofiler 28/9 Stream - Raai K (I/RA/11291/06.106/MSA), in opdracht van AWZ.

IMDC (2007f). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.4 Through tide Measurement Sediview 28/9 Veremans - Waarde(I/RA/11291/06.107/MSA), in opdracht van AWZ.

IMDC (2007g). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.5 Through tide Measurement Sediview 28/9 Parel 2 - Schelle (I/RA/11291/06.108/MSA), in opdracht van AWZ.

IMDC (2007h). Uitbreiding studie densiteitsstromingen in de Beneden Zeeschelde in het kader van LTV Meetcampagne naar hooggeconcentreerde slibsuspensies Deelrapport 11.6 Through tide Measurement Salinity Distribution 26/9 Scheldewacht – Deurganckdok in opdracht van AWZ.

IMDC (2007i). Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.1 Sediment Balance: Three monthly report 1/4/2006 – 30/06/2006 (I/RA/11283/06.113/MSA)

IMDC (2007j). Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.2 Sediment Balance: Three monthly report 1/7/2006 – 30/09/2006 (I/RA/11283/06.114/MSA)

IMDC (2007k). Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.3 Sediment Balance: Three monthly report 1/10/2006 – 31/12/2006 (I/RA/11283/06.115/MSA)

IMDC (2007l). Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 1.4 Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.116/MSA)

IMDC (2007m) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 1.5 Annual Sediment Balance (I/RA/11283/06.117/MSA)

IMDC (2007n) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 2.2 Through tide measurement SiltProfiler 26/09/2006 Stream  
(I/RA/11283/06.068/MSA)

IMDC (2007o) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 2.7 Salt-Silt distribution & Frame Measurements Deurganckdok 15/07/2006 –  
31/10/2006 (I/RA/11283/06.122/MSA)

IMDC (2007p) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 2.8 Salt-Silt distribution & Frame Measurements Deurganckdok 15/01/2007 –  
15/03/2007 (I/RA/11283/06.123/MSA)

IMDC (2007q) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 3.1 Boundary conditions: Three monthly report 1/1/2007 – 31/03/2007  
(I/RA/11283/06.127/MSA)

IMDC (2007r) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing  
Deelrapport 1.10: Sediment Balance: Three monthly report 1/4/2007 – 30/06/2007  
(I/RA/11283/07.081/MSA)

IMDC (2007s) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 1.11: Sediment Balance: Three monthly report 1/7/2007 – 30/09/2007  
(I/RA/11283/07.082/MSA)

IMDC (2007t) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport  
2.16: Salt-Silt distribution Deurganckdok summer (21/6/2007 – 30/07/2007)  
(I/RA/11283/07.092/MSA)

IMDC (2007v) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 3.10: Boundary conditions: Three monthly report 1/04/2007 – 30/06/2007  
(I/RA/11283/07.097/MSA)

IMDC (2007w) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 3.11: Boundary conditions: Two monthly report 1/07/2007 – 30/09/2007  
(I/RA/11283/07.098/MSA)

IMDC (2008a) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 2.5: Through tide measurement Sediview average tide 24/10/2007  
(I/RA/11283/06.120/MSA)

IMDC (2008b) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 4.1: Analysis of siltation Processes and Factors (I/RA/11283/06.129/MSA)

IMDC (2008c) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 1.12: Sediment Balance: Four monthly report 1/9/2007 – 31/12/2007  
(I/RA/11283/07.083/MSA)

IMDC (2008d) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 1.13: Sediment Balance: Four monthly report 1/01/2007 – 31/03/2007  
(I/RA/11283/07.084/MSA)

IMDC (2008e) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing.  
Deelrapport 1.14: Annual Sediment Balance. (I/RA/11283/07.085/MSA)



IMDC (2008f) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.09: Calibration stationary equipment autumn (I/RA/11283/07.095/MSA)

IMDC (2008g) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.10: Through tide measurement SiltProfiler 23 October 2007 (I/RA/11283/07.086/MSA)

IMDC (2008h) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.11: Through tide measurement Salinity Profiling winter 12 March 2008 (I/RA/11283/07.087/MSA)

IMDC (2008i) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.12: Through tide measurement Sediview winter 11 March 2008 – Transect I (I/RA/11283/07.088/MSA)

IMDC (2008j) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.13: Through tide measurement Sediview winter 11 March 2008 – Transect K (I/RA/11283/07.089/MSA)

IMDC (2008k) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.14: Through tide measurement Sediview winter 11 March 2008 – Transect DGD (I/RA/11283/07.090/MSA)

IMDC (2008l) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.15: Through tide measurement SiltProfiler winter 12 March 2008 (I/RA/11283/07.091/MSA)

IMDC (2008m) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.17: Salt-Silt distribution & Frame Measurements Deurganckdok autumn (17/9/2007-10/12/2007) (I/RA/11283/07.093/MSA)

IMDC (2008n) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.18: Salt-Silt distribution & Frame Measurements Deurganckdok winter (18/02/2007-31/03/2008) (I/RA/11283/07.094/MSA)

IMDC (2008o) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.19: Calibration stationary & mobile equipment winter (I/RA/11283/07.096/MSA)

IMDC (2008p) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.12: Boundary conditions: Three monthly report 1/9/2007 – 31/12/2007 (I/RA/11283/07.099/MSA)

IMDC (2008q) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.13: Boundary conditions: Three monthly report 1/1/2008 – 31/3/2007 (I/RA/11283/07.100/MSA)

IMDC (2008r) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 3.14: Boundary conditions: Annual report (I/RA/11283/07.101/MSA)

IMDC (2008s) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 4.10: Analysis of siltation Processes and Factors (I/RA/11283/07.102/MSA)

TV SAM (2006a) Langdurige stationaire ADCP stroommetingen te Oosterweel dukdalf 01/2005-06/2005. 42SR S032PIB 2A.

TV SAM (2006b) Langdurige stationaire ADCP stroommetingen te Oosterweel dukdalf 07/2005-12/2005. 42SR S033PIB 2A.

TV SAM (2006c) Langdurige stationaire ADCP stroommetingen te Oosterweel dukdalf 01/2006-06/2006. 42SR S032PIB 2A.

Unesco (1983). Algorithms for computation of fundamental properties of seawater, UNESCO Technical Papers in Marine Science, 44. UNESCO, France.

Wunderground (2008). Weather Underground: [www.wunderground.com](http://www.wunderground.com)

## **APPENDIX A. MEASUREMENT EQUIPMENT**



## CTD-Diver datalogger



### Applications

- Aquifer recharge projects
- Saltwater intrusion projects
- Surveillance against (illegal) discharges
- Surveillance on waste disposal sites
- Monitoring groundwater or surface water quality

CTD-Diver: reliable in all conditions

Where there is a need to monitor not only groundwater levels but also salinization, saltwater intrusion or contamination in the case of (illegal) discharges and landfill sites, the CTD-Diver is the instrument of choice. Besides a pressure and temperature sensor, the CTD-Diver has a four-electrode conductivity sensor for determining conductivity across a substantial measurement range (0-80 mS/cm). For each measurement, the date and time, groundwater level, temperature and conductivity are recorded. There are two options for conductivity measurement: display the measured conductivity or a specific conductivity at 25 °C. The CTD-Diver is accommodated in a ceramic casing which is resistant to corrosive conditions. The CTD-Diver has a memory with a maximum storage capacity of 16,000 measurement data per parameter.

### Specifications:

Dimensions	Ø22 mm x 183 mm
Memory	16,000 measurements (non-volatile)
Sample rate	0.5 sec to 99 hours
Housing material	ceramic (ZrO <sub>2</sub> )
Temperature range	-20 °C to 80 °C
- accuracy	±0.1 °C
- resolution	0.01 °C
Conductivity:	
- range	0 to 80 mS/cm
- accuracy	±1% of reading
- resolution	0.1% of reading
Battery life	10 years (depending on use)
Weight	150 grams



### Highlights:

- 3 year warranty
- Long-term and frequent measurements
- Various measurement methods:
  - fixed
  - event dependent
  - pumping tests
- Simple calibration
- Temperature corrected measurement
- Reliable and accurate measurement data
- Compact size
- Robust construction:
  - ceramic
  - corrosion resistant
- Measures three parameters:
  - conductivity
  - temperature
  - pressure



### CTD-Diver® Technical specifications (pressure)

Type	D1 281	D1 263	D1 265	D1 500 (Baro)
Range	10 m H <sub>2</sub> O	30 m H <sub>2</sub> O	100 m H <sub>2</sub> O	1.5 m H <sub>2</sub> O
- accuracy <sup>aa</sup>	1 cm H <sub>2</sub> O	3 cm H <sub>2</sub> O	10 cm H <sub>2</sub> O	0.5 cm H <sub>2</sub> O
- resolution	0.2 cm H <sub>2</sub> O	0.6 cm H <sub>2</sub> O	2 cm H <sub>2</sub> O	0.1 cm H <sub>2</sub> O

<sup>a</sup> various measuring methods available (fixed, event based and pumping tests)

<sup>aa</sup> within temperature compensated range (0°C to 40°C)



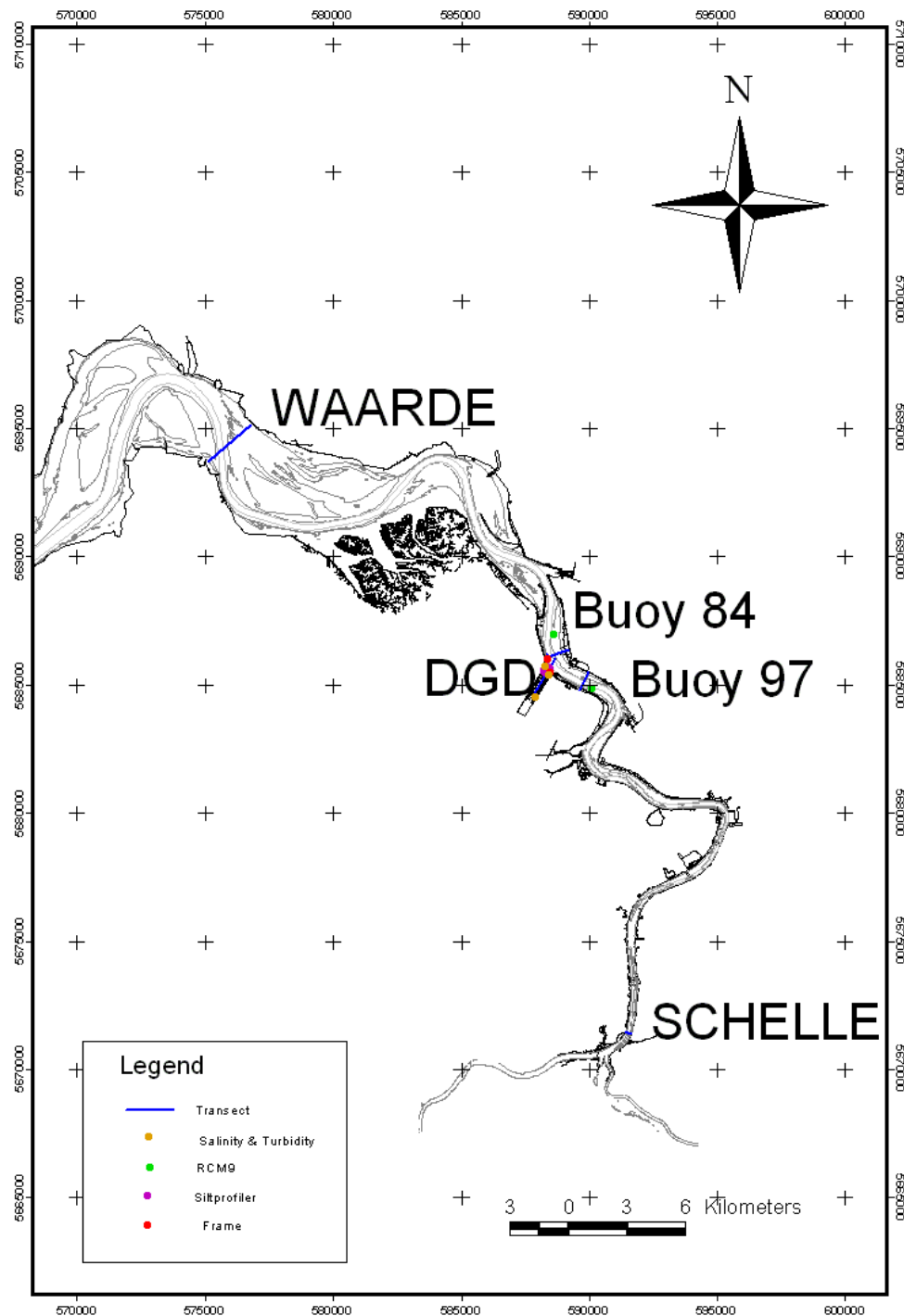
## **APPENDIX B.**

### **OVERVIEW OF MEASUREMENTS**

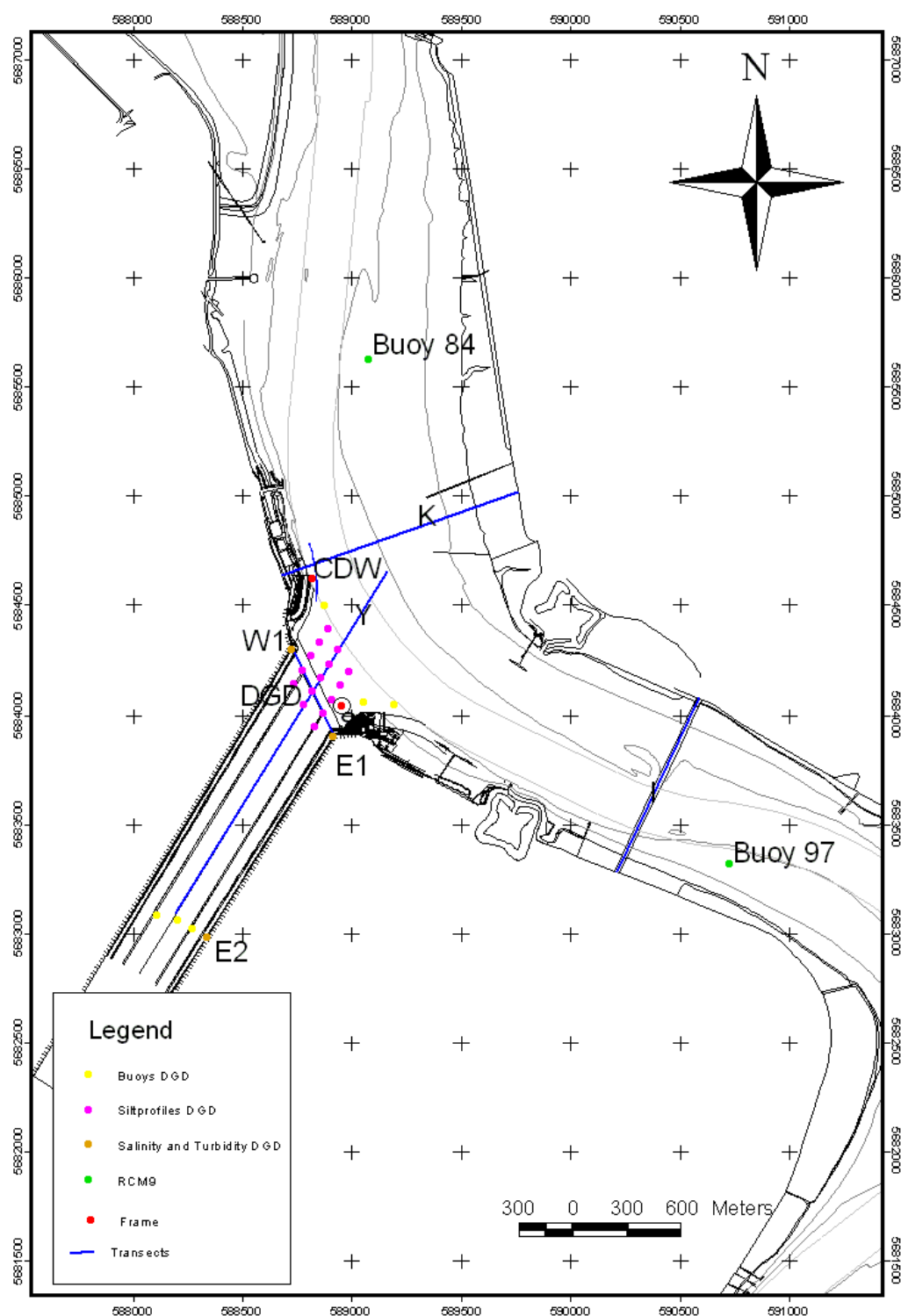




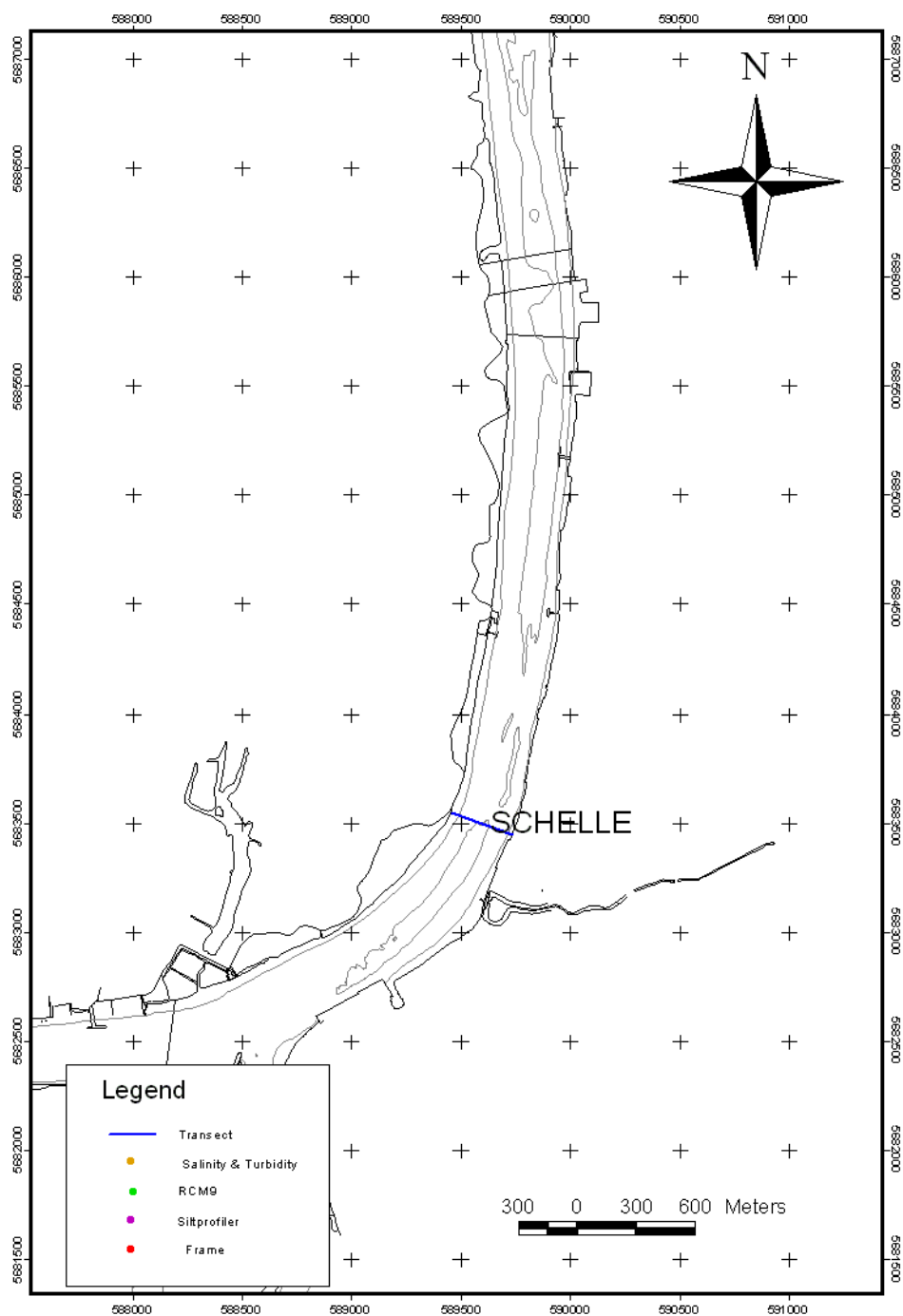
## B.1 Overview of the measurement locations for the whole HCBS2 and Deurganckdok measurement campaign



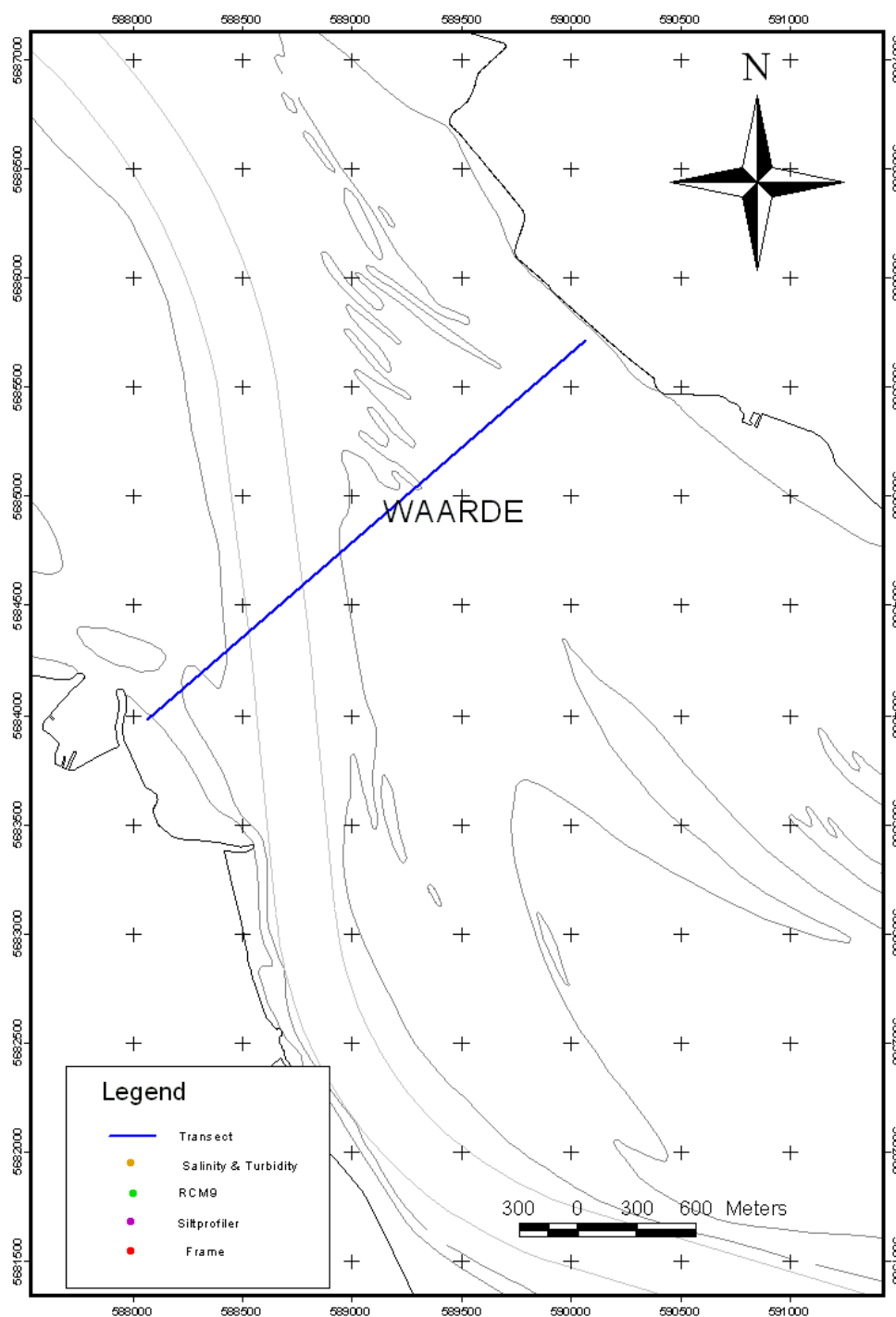
Overview of the measurement locations



Overview of the measurement locations at Deurganckdok



*Theoretical transect in Schelle*



*Theoretical transect in Waarde*

## B.2 Overview of all measurement locations HCBS and Deurganckdok measurement campaign

*Table with coordinates of theoretical transects*

<b><i>Transect</i></b>	<b><i>Start Easting</i></b>	<b><i>Start Northing</i></b>	<b><i>End Easting</i></b>	<b><i>End Northing</i></b>
I	590318.00	5683302.00	590771.00	5684257.00
K	588484.00	5684924.00	589775.00	5685384.00
SCHELLE	592645.07	5665794.06	592952.68	5665682.28
DGD	588764.88	5684056.49	588540.95	5684526.94
Y	589059.09	5684948.36	587898.76	5683076.56
WAARDE	573541.00	5696848.20	571318.00	5694932.90

*Table with coordinates of SiltProfiler gauging locations*

<b><i>SP</i></b>	<b><i>EASTING</i></b>	<b><i>NORTHING</i></b>
Location 1: Xa	588549	5684335
Location 2: Xb	588596	5684411
Location 3: Xc	588643	5684486
Location 4: Xd	588690	5684562
Location 5: Xe	588737	5684638
Location 6: Ya	588606	5684217
Location 7: Yb	588653	5684293
Location 8: Yc	588700	5684368
Location 9: Yd	588747	5684444
Location 10: Ye	588793	5684520
Location 11: Za	588662	5684099
Location 12: Zb	588709	5684174
Location 13: Zc	588756	5684250
Location 14: Zd	588803	5684326
Location 15: Ze	588850	5684402

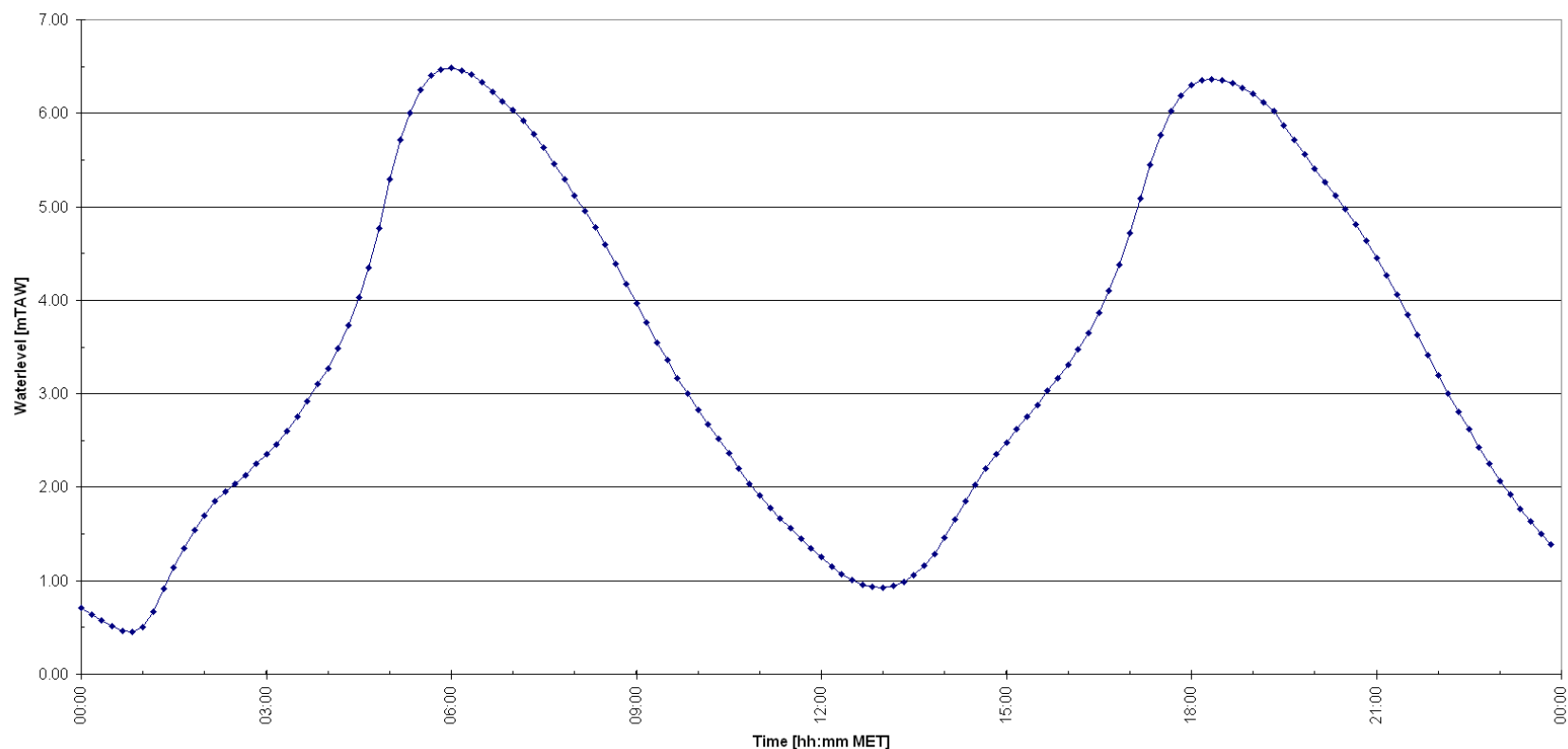


## **APPENDIX C. TIDAL DATA**





## Through Tide Measurement SiltProfiler 12 March 2008



Measured tide on 12/03/2008

Location:

Liefkenshoek tidal gauge

Date:

12/03/2008

Data processed by:

In association with:





## **APPENDIX D.**

### **NAVIGATION INFORMATION AS RECORDED ON SITE**



<b>Ship:</b>		<b>Scheldewacht 2</b>	
<b>Location:</b>		<b>Entrance Deurganckdok</b>	
<b>Nr.</b>	<b>Tijdstip (MET)</b>	<b>Type schip</b>	<b>Vaarrichting (uit-, invarend)</b>
<b>1</b>	8:18	Containerschip Maersk	invarend
<b>2</b>	8:25	Sleepboot Union 7	invarend
<b>3</b>	8:42	Sleepboot	invarend
<b>4</b>	8:55	Veremans	invarend
<b>5</b>	8:05	Sleepboot Union 8	Uitvarend
<b>6</b>	8:10	Veremans	Uitvarend
<b>7</b>	8:11	Union 11	Invarend
<b>8</b>	8:15	Binnenvaart Camaro	Uitvarend
<b>9</b>	9:30	Brabo, dienst	Uitvarend
<b>10</b>	9:40	Rotterdam, tanker	Invarend
<b>11</b>	9:45	Veremans	Uitvarend
<b>12</b>	9:56	Veremans	Invarend
<b>13</b>	10:00	Binnenvaart So Long	Uitvarend
<b>14</b>	10:15	Binnenvaart Antigoon	Uitvarend
<b>15</b>	10:35	Veremans	Uitvarend
<b>16</b>	10:40	Veremans	Invarend
<b>17</b>	10:55	Container Antigoon	Invarend
<b>18</b>	11:02	Ad-fundum	Invarend
<b>19</b>	11:20	Veremans	Uitvarend
<b>20</b>	11:20	Independent II	Invarend
<b>21</b>	11:22	DN-31	Uitvarend
<b>22</b>	11:22	Veremans	Invarend
<b>23</b>	11:40	El-Blajo	Invarend
<b>24</b>	12:00	Zeeschip Monte Pascoal	Invarend
<b>25</b>	12:00	Union 9	Invarend
<b>26</b>	12:00	Union Emerald	Invarend
<b>27</b>	12:00	Union Anton V	Invarend
<b>28</b>	12:28	Binnenvaart Vela + Alpina	Invarend
<b>29</b>	12:30	DN-31	Invarend
<b>30</b>	12:30	So Long	Invarend
<b>31</b>		Union 9	Uitvarend

<b>Ship:</b>		<b>Scheldewacht 2</b>	
<b>Location:</b>		<b>Entrance Deurganckdok</b>	
<b>32</b>		Union Emerald	Uitvarend
<b>33</b>	12:45	SPN 14	Invarend
<b>34</b>	12:46	Anton V	Uitvarend
<b>35</b>	13:19	Tanksschip Varik	Uitvarend
<b>36</b>	13:20	Rotterdam	Uitvarend
<b>37</b>	13:25	Tankschip Imperial	Invarend
<b>38</b>	13:30	Binnenvaart Nautiek	Invarend
<b>39</b>	13:34	Tankschip Amalia	Uitvarend
<b>40</b>	13:35	Duwbak Schelde + Duwer Nairobi	Uitvarend
<b>41</b>	13:38	DN-31	Uitvarend
<b>42</b>	13:43	Union Emerald	Invarend
<b>43</b>	13:44	Union 9	Invarend
<b>44</b>	13:48	Binnenschip Pretoria	Invarend
<b>45</b>	13:50	Veremans	Uitvarend
<b>46</b>	13:51	Union Ruby	Invarend
<b>47</b>	13:54	Veremans	Invarend
<b>48</b>	13:56	DN-31	Invarend
<b>49</b>	14:01	Tankschip Elveba	Invarend
<b>50</b>	14:10	La Prorinnie	Uitvarend
<b>51</b>	14:12	Zandschip Rio 4	Uitvarend
<b>52</b>	14:20	Union 9	Uitvarend
<b>53</b>	14:25	Binnenschip Karveel	Invarend
<b>54</b>	14:26	Tankschip Rotterdam	Invarend
<b>55</b>	14:30	So Long	Uitvarend
<b>56</b>	14:30	Veremans	Uitvarend
<b>57</b>	14:34	Union Kodak	Invarend
<b>58</b>	14:35	Binnenschip Sarina	Invarend
<b>59</b>	14:36	Veremans	Invarend
<b>60</b>	14:44	Baggerschip Jade River	Uitvarend
<b>61</b>	14:51	Politieboot SPN 14	Invarend
<b>62</b>	14:55	Union Ruby	Uitvarend
<b>63</b>	15:13	Veremans	Uitvarend
<b>64</b>	15:20	Union Emerald	Uitvarend

<b>Ship:</b>		<b>Scheldewacht 2</b>	
<b>Location:</b>		<b>Entrance Deurganckdok</b>	
<b>65</b>	15:21	Veremans	Invarend
<b>66</b>	15:31	Union 8	Invarend
<b>67</b>	15:33	Baggerschip Jade River	Invarend
<b>68</b>	15:38	Binnenschip Brutus	Invarend
<b>69</b>	15:36	Karveel	Uitvarend
<b>70</b>	15:38	DN-31	Uitvarend
<b>71</b>	15:51	Zeeschip Vegaland	Invarend
<b>72</b>	15:54	Veremans	Uitvarend
<b>73</b>	15:55	DN-31	Invarend
<b>74</b>	16:00	Ad-fundum	Uitvarend
<b>75</b>	16:01	Veremans	Invarend
<b>76</b>	16:02	Sarino	Uitvarend
<b>77</b>	16:05	Zeeschip GrenoLine	Uitvarend
<b>78</b>	16:05	Veronique	Uitvarend
<b>79</b>	16:08	Margreta	Invarend
<b>80</b>	16:10	Union Ruby	Invarend
<b>81</b>	16:35	Veremans	Uitvarend
<b>82</b>	16:40	Veremans	Invarend
<b>83</b>	16:51	Binnenschip	Invarend
<b>84</b>	16:52	Schelde 12	Invarend
<b>85</b>	16:53	Union 8	Invarend
<b>86</b>	16:56	Melek B	Invarend
<b>87</b>	17:13	Union Emerald	Invarend
<b>88</b>	17:15	Union 9	Invarend
<b>89</b>	17:16	Veremans	Uitvarend
<b>90</b>	17:21	Veremans	Invarend
<b>91</b>	17:50	Independent 1	Uitvarend
<b>92</b>	17:50	Independent 2	Uitvarend
<b>93</b>	17:52	El Blajo	Uitvarend
<b>94</b>	17:54	Sint Antonius	Invarend
<b>95</b>	17:55	Veremans	Uitvarend
<b>96</b>	17:56	Imperial	Uitvarend
<b>97</b>	18:00	Veremans	Invarend

<b>Ship:</b>		<b>Scheldewacht 2</b>	
<b>Location:</b>		<b>Entrance Deurganckdok</b>	
<b>98</b>	18:06	Lieve Govaert	Uitvarend
<b>99</b>	18:14	DN-31	Uitvarend
<b>100</b>	18:35	Veremans	Uitvarend
<b>101</b>	18:37	Antigoon	Uitvarend
<b>102</b>	18:39	Veremans	Invarend
<b>103</b>	18:46	DN-31	Invarend
<b>104</b>	18:50	Union 9	Uitvarend
<b>105</b>	18:50	Union Emerald	Uitvarend
<b>106</b>	19:00	DN-31	Invarend
<b>107</b>	19:07	Nautiek	Uitvarend
<b>108</b>	19:14	Veremans	Uitvarend
<b>109</b>	19:20	Veremans	Invarend
<b>110</b>	19:30	Pretoria	Uitvarend
<b>111</b>	19:53	Odessa	Uitvarend
<b>112</b>	19:54	Veremans	Uitvarend
<b>113</b>	19:56	Veremans	Invarend
<b>114</b>	20:22	Alpina	Uitvarend
<b>115</b>	20:40	Sownent	Invarend
<b>116</b>	20:45	Colommer	Invarend



## **APPENDIX E.**

### **UNESCO PPS-78 FORMULA FOR CALCULATING SALINITY**



## Practical Salinity Scale (PPS 78) Salinity in the range of 2 to 42

Constants from the 19th Edition of Standard Methods

R cond.ratio	0.0117	<div><math display="block">R = \frac{C}{42.914\text{mS} / \text{cm}}</math></div>							
C Cond at t	0.5	Input conductivity in mS/cm of sample							
t deg. C	22.00	Input temperature of sample solution							
P dBar	20	Input pressure at which sample is measured in decibars							
Rp	1.0020845	<div><math display="block">R_p = 1 + \frac{p(e_1 + e_2p + e_3p^2)}{1 + d_1t + d_2t^2 + (d_3 + d_4t)R}</math></div>							
rt	1.1641102	<div><math display="block">r_t = c_0 + c_1t + c_2t^2 + c_3t^3 + c_4t^4</math></div>							
Rt	0.0099879	<div><math display="block">R_t = \frac{R}{R_p \times r_t}</math></div>							
Delta S	-0.0010	<div><math display="block">\text{Delta S} = \frac{(t-15)}{1+k(t-15)} (b_0 + b_1R_t^{1/2} + b_2R_t + b_3R_t^{3/2} + b_4R_t^2 + b_5R_t^{5/2})</math></div>							
S = Salinity	0.257	<div><math display="block">S = a_0 + a_1R_t^{1/2} + a_2R_t + a_3R_t^{3/2} + a_4R_t^2 + a_5R_t^{5/2} + \text{delta S}</math></div>							
a0	0.0080	b0	0.0005	c0	0.6766097	d1	3.426E-02	e1	2.070E-04
a1	-0.1692	b1	-0.0056	c1	2.00564E-02	d2	4.464E-04	e2	-6.370E-08
a2	25.3851	b2	-0.0066	c2	1.104259E-04	d3	4.215E-01	e3	3.989E-12
a3	14.0941	b3	-0.0375	c3	-6.9698E-07	d4	-3.107E-03		
a4	-7.0261	b4	0.0636	c4	1.0031E-09				
a5	2.7081	b5	-0.0144						
		k	0.0162						

R = ratio of measured conductivity to the conductivity of the Standard Seawater Solution

Conductivity Ratio R is a function of salinity, temperature, and hydraulic pressure. So that we can factor R into three parts i.e.

$$R = R_t \times R_p \times r_t$$

$$R = C(S, t, p) / C(35, 15, 0)$$

C = 42.914 mS/cm at 15 deg C and 0 dbar pressure ie C(35,15,0) where 35 is the salinity

Ocean pressure is usually measured in decibars. 1 dbar =  $10^{-1}$  bar =  $10^5$  dyne/cm<sup>2</sup> =  $10^4$  Pascal.



## **APPENDIX F.**

### **SILTPROFILER GRAPHS**



## **F.1 Location Xa**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

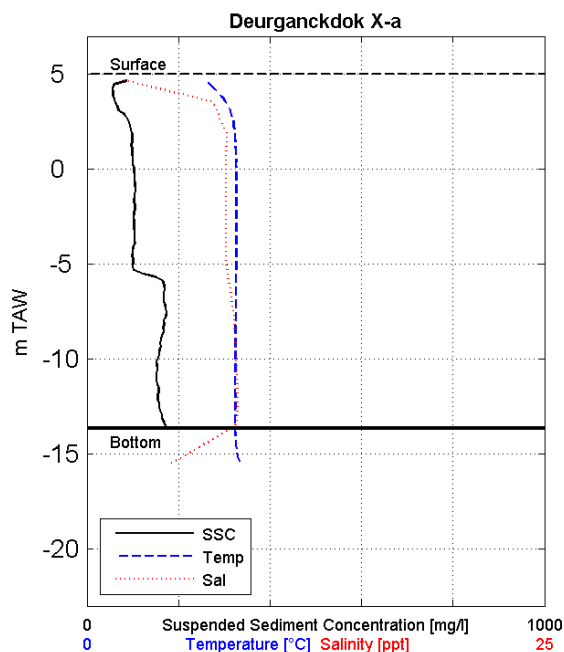
Sourcefile(s):

4001Xa\_ctd.sil

4020Xa\_ctd.sil

Location:

Deurganckdok

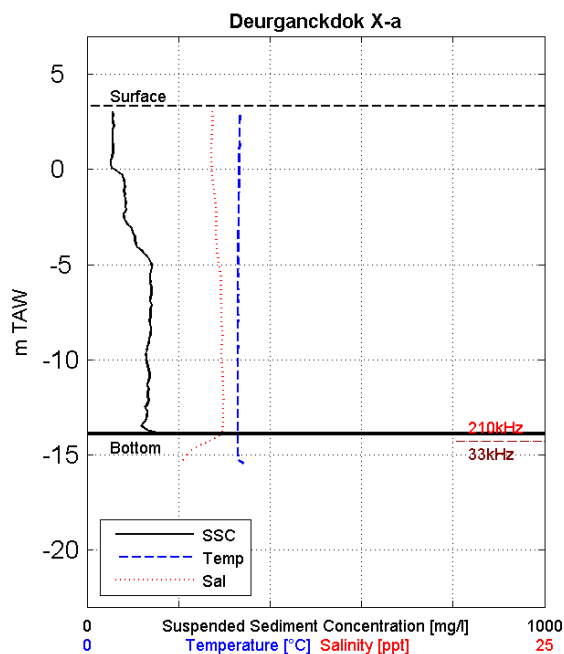


## Siltprofiler

Date & Time [MET]: 12/3/2008 08:05  
Time after/before HT [MET]: 2:05  
Coordinates [UTM-ED50] Easting: 588540  
Coordinates [UTM-ED50] Northing: 5684416  
Water-Bottom Interface Siltpr. [m TAW]: -13.65  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 5.02

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.73	6.2	1.8	127
3.78	7.4	5.9	59
2.93	7.9	7.2	75
2.06	8.1	7.5	95
1.08	8.1	7.6	98
0.11	8.1	7.5	101
-0.79	8.1	7.5	103
-1.60	8.1	7.5	104
-2.48	8.1	7.5	103
-3.29	8.1	7.5	103
-4.09	8.1	7.6	101
-4.87	8.1	7.6	108
-5.65	8.1	7.7	150
-6.37	8.1	7.8	169
-7.23	8.1	8.0	171
-7.98	8.1	8.1	167
-8.77	8.1	8.1	163
-9.70	8.1	8.1	156
-10.53	8.1	8.2	154
-11.56	8.1	8.2	156
-12.57	8.1	8.2	160
-13.61	8.1	7.9	171
-13.65	8.1	7.8	179

Depth Avg    8.0    7.5    123

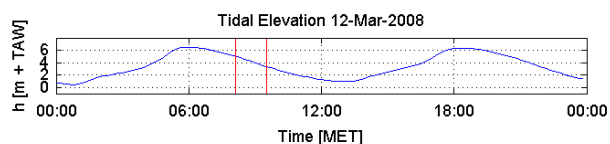


## Siltprofiler

Date & Time [MET]: 12/3/2008 09:30  
Time after/before HT [MET]: 3:30  
Coordinates [UTM-ED50] Easting: 588542  
Coordinates [UTM-ED50] Northing: 5684399  
Water-Bottom Interface Siltpr. [m TAW]: -13.90  
Waterdepth 210 kHz Echo [m TAW]: -14.29  
Waterdepth 33 kHz Echo [m TAW]: -14.28  
Surface Elevation [m TAW]: 3.34

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.04	8.3	6.8	55
2.43	8.3	6.9	56
1.57	8.3	6.8	55
0.67	8.3	6.8	55
-0.23	8.3	6.8	76
-1.02	8.3	6.9	82
-1.86	8.3	7.0	83
-2.65	8.3	7.0	84
-3.45	8.3	7.0	104
-4.28	8.3	7.1	116
-5.01	8.2	7.2	141
-5.87	8.2	7.3	140
-6.66	8.2	7.3	140
-7.47	8.2	7.3	140
-8.27	8.3	7.3	138
-9.11	8.2	7.3	131
-9.96	8.2	7.3	132
-10.67	8.2	7.4	137
-11.37	8.2	7.4	132
-12.07	8.2	7.4	136
-12.88	8.2	7.4	134
-13.66	8.2	7.4	120
-13.90	8.2	7.3	199

Depth Avg    8.3    7.1    108



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

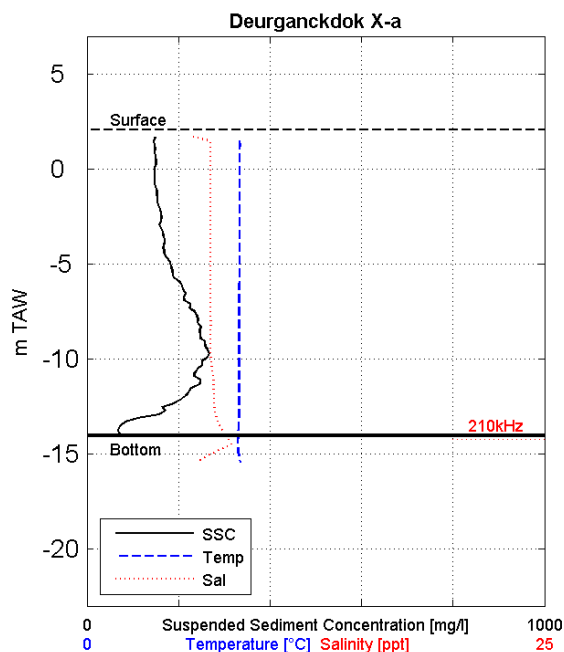
Sourcefile(s):

4035Xa\_ctd.sil

4051Xa\_ctd.sil

Location:

Deurganckdok

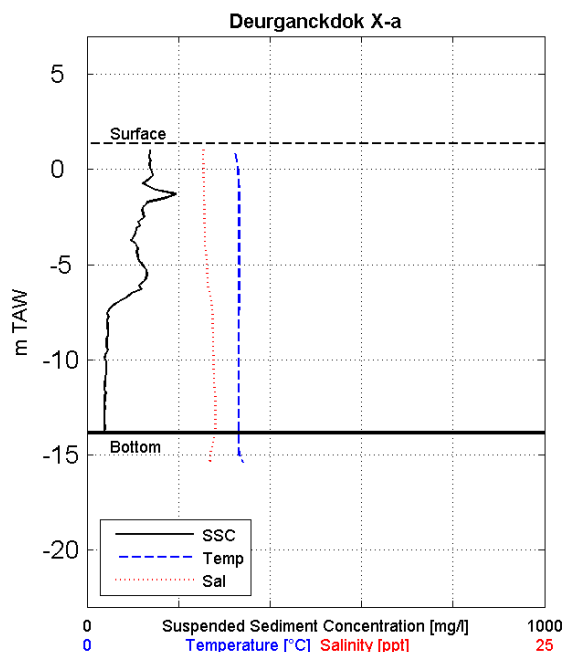


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:47  
 Time after/before HT [MET]: 4:47  
 Coordinates [UTM-ED50] Easting: 588564  
 Coordinates [UTM-ED50] Northing: 5684381  
 Water-Bottom Interface Siltpr. [m TAW]: -14.04  
 Waterdepth 210 kHz Echo [m TAW]: -14.22  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 2.08

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.79	8.3	4.7	150
1.29	8.3	6.7	149
0.62	8.3	6.7	151
-0.01	8.3	6.7	144
-0.72	8.3	6.7	150
-1.35	8.3	6.7	151
-2.07	8.3	6.7	159
-2.92	8.3	6.7	161
-3.76	8.3	6.7	168
-4.65	8.3	6.7	173
-5.46	8.3	6.7	186
-6.13	8.3	6.7	209
-6.89	8.3	6.7	212
-7.67	8.3	6.7	238
-8.47	8.3	6.7	249
-9.23	8.3	6.7	254
-10.00	8.3	6.8	260
-10.84	8.3	6.9	230
-11.55	8.3	6.9	229
-12.38	8.3	6.9	190
-13.12	8.3	7.1	103
-13.91	8.2	7.5	73
-14.04	8.3	7.6	118

Depth Avg 8.3 6.8 185

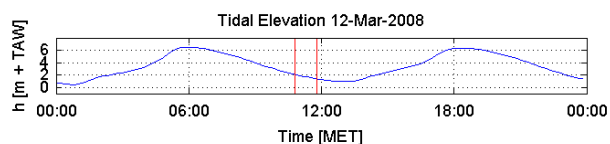


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:48  
 Time after/before HT [MET]: 5:48  
 Coordinates [UTM-ED50] Easting: 588551  
 Coordinates [UTM-ED50] Northing: 5684419  
 Water-Bottom Interface Siltpr. [m TAW]: -13.87  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 1.37

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.08	8.0	6.3	139
0.55	8.2	6.3	143
-0.05	8.3	6.3	136
-0.83	8.3	6.4	206
-1.62	8.3	6.4	123
-2.42	8.3	6.4	121
-3.22	8.3	6.4	101
-3.93	8.3	6.4	117
-4.63	8.3	6.5	118
-5.36	8.3	6.5	116
-6.06	8.3	6.6	107
-6.65	8.3	6.7	82
-7.28	8.3	6.8	43
-8.01	8.2	6.9	40
-8.73	8.3	6.9	46
-9.53	8.3	6.9	48
-10.41	8.3	6.9	38
-11.20	8.3	6.9	28
-11.89	8.2	7.0	37
-12.45	8.3	7.0	36
-13.09	8.2	7.0	36
-13.83	8.3	7.0	40
-13.87	8.2	7.0	256

Depth Avg 8.3 6.7 87



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

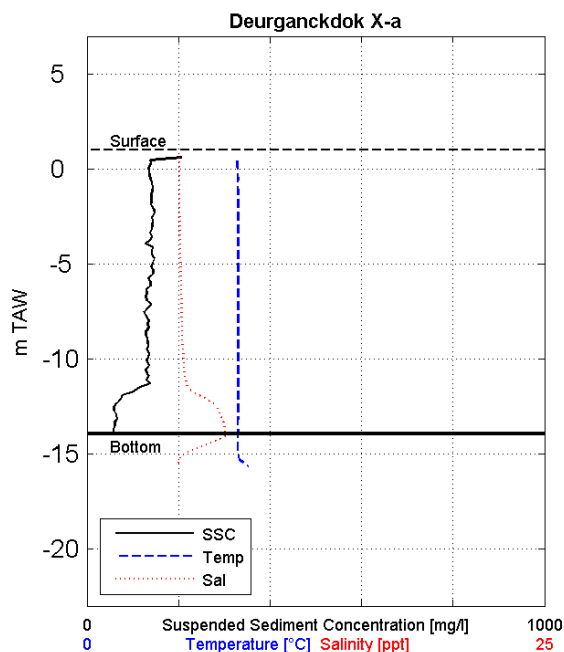
Sourcefile(s):

4066Xa\_ctd.sil

4081Xa\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:20

Time after/before HT [MET]: -4:59

Coordinates [UTM-ED50] Easting: 588549

Coordinates [UTM-ED50] Northing: 5684434

Water-Bottom Interface Siltpr. [m TAW]: -13.92

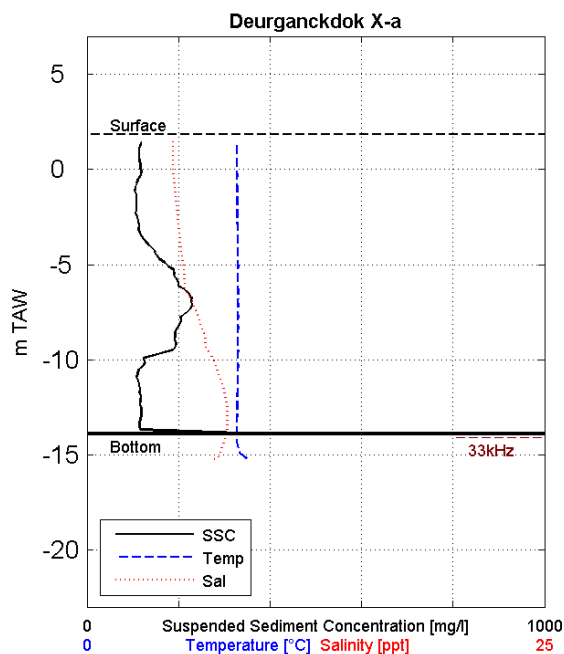
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 0.99

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.69	8.2	5.0	173
0.32	8.2	5.0	139
-0.15	8.3	5.0	129
-0.62	8.2	5.0	135
-1.14	8.2	5.0	147
-1.77	8.3	5.0	139
-2.39	8.3	5.0	141
-3.12	8.2	5.1	138
-3.86	8.2	5.1	114
-4.56	8.3	5.1	138
-5.26	8.2	5.1	157
-6.06	8.2	5.1	152
-6.90	8.3	5.1	121
-7.69	8.3	5.1	123
-8.53	8.3	5.2	129
-9.43	8.3	5.2	144
-10.29	8.3	5.3	122
-11.03	8.2	5.4	128
-11.70	8.3	5.7	112
-12.44	8.2	7.0	64
-13.20	8.2	7.4	64
-13.92	8.2	7.6	68
-13.92	8.2	7.6	68

Depth Avg 8.2 5.4 128



**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:19

Time after/before HT [MET]: -4:00

Coordinates [UTM-ED50] Easting: 588577

Coordinates [UTM-ED50] Northing: 5684408

Water-Bottom Interface Siltpr. [m TAW]: -13.89

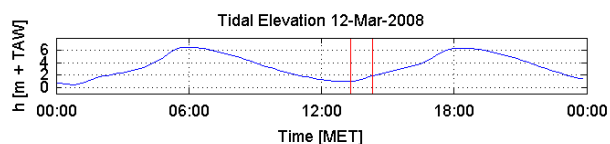
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: -14.09

Surface Elevation [m TAW]: 1.83

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.55	8.2	4.7	126
1.06	8.2	4.7	113
0.51	8.2	4.7	115
-0.14	8.2	4.7	116
-0.78	8.2	4.8	108
-1.63	8.2	4.8	106
-2.62	8.2	5.0	109
-3.26	8.2	5.0	107
-3.99	8.2	5.1	136
-4.81	8.2	5.2	164
-5.60	8.2	5.3	193
-6.34	8.3	5.4	218
-7.12	8.2	5.8	228
-7.96	8.2	6.2	197
-8.73	8.3	6.4	190
-9.44	8.3	6.5	190
-10.14	8.2	7.0	126
-10.80	8.2	7.2	113
-11.46	8.2	7.4	115
-12.15	8.2	7.6	113
-12.85	8.2	7.7	118
-13.66	8.2	7.6	118
-13.89	8.2	7.6	14023

Depth Avg 8.2 5.8 153



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

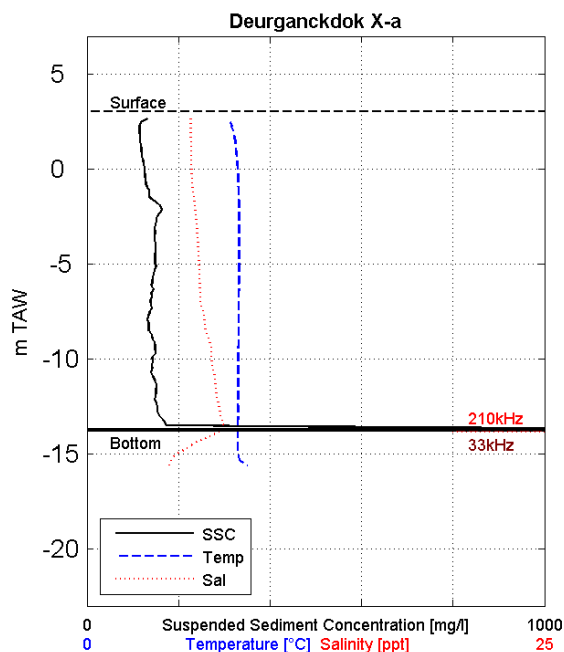
Sourcefile(s):

4097Xa\_ctd.sil

4112Xa\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 15:38

Time after/before HT [MET]: -2:41

Coordinates [UTM-ED50] Easting: 588588

Coordinates [UTM-ED50] Northing: 5684444

Water-Bottom Interface Siltpr. [m TAW]: -13.74

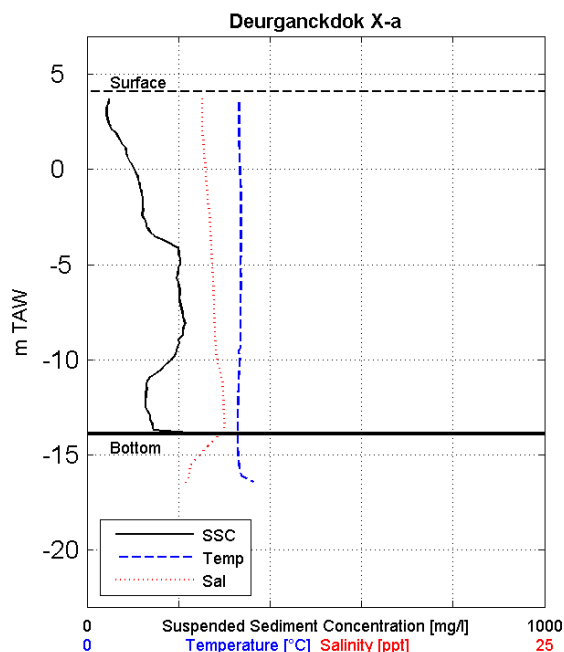
Waterdepth 210 kHz Echo [m TAW]: -13.83

Waterdepth 33 kHz Echo [m TAW]: -13.80

Surface Elevation [m TAW]: 3.01

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.73	7.7	5.6	135
2.17	7.9	5.7	115
1.48	8.1	5.7	116
0.73	8.2	5.7	122
0.00	8.3	5.7	123
-0.77	8.2	5.7	124
-1.55	8.3	5.8	141
-2.43	8.3	5.9	151
-3.34	8.3	6.0	147
-4.18	8.3	6.1	149
-5.04	8.3	6.1	152
-5.88	8.3	6.2	143
-6.65	8.3	6.2	141
-7.56	8.3	6.3	138
-8.34	8.2	6.5	134
-9.04	8.3	6.7	148
-9.83	8.3	6.8	148
-10.68	8.2	6.9	137
-11.49	8.2	7.0	154
-12.14	8.3	7.1	144
-12.79	8.2	7.3	153
-13.49	8.2	7.5	174
-13.74	8.2	7.5	1336

Depth Avg    8.2    6.3    146



**Siltprofiler**

Date & Time [MET]: 12/3/2008 16:39

Time after/before HT [MET]: -1:40

Coordinates [UTM-ED50] Easting: 588565

Coordinates [UTM-ED50] Northing: 5684419

Water-Bottom Interface Siltpr. [m TAW]: -13.90

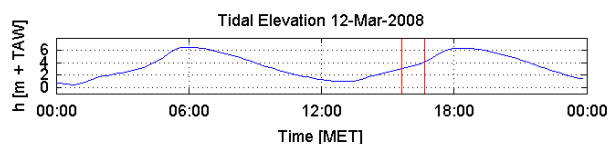
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 4.08

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.79	8.3	6.3	49
3.32	8.3	6.3	44
2.61	8.3	6.2	44
1.87	8.3	6.3	63
0.97	8.3	6.4	85
0.09	8.3	6.5	103
-0.75	8.3	6.5	115
-1.53	8.4	6.6	123
-2.47	8.4	6.7	121
-3.34	8.5	6.7	139
-4.17	8.4	6.8	201
-5.07	8.4	6.8	200
-5.88	8.4	6.9	199
-6.71	8.4	6.9	200
-7.57	8.4	6.9	204
-8.43	8.4	7.0	211
-9.26	8.4	7.0	197
-10.20	8.3	7.1	173
-11.02	8.3	7.4	138
-11.79	8.3	7.4	130
-12.78	8.3	7.5	134
-13.78	8.2	7.3	143
-13.90	8.2	7.2	35283

Depth Avg    8.3    6.8    162



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

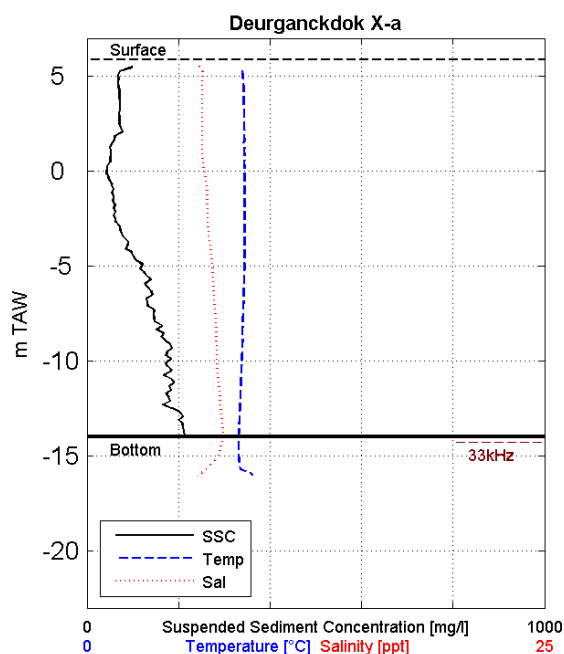
Sourcefile(s):

4127Xa\_ctd.sil

4143Xa\_ctd.sil

Location:

Deurganckdok

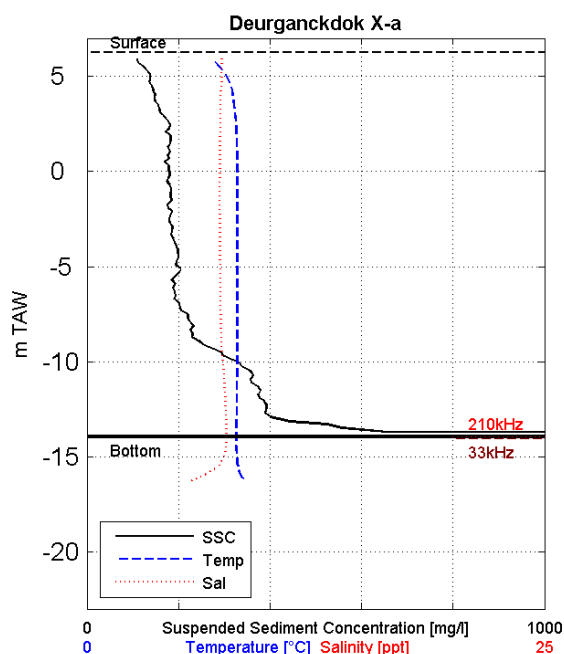


**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:34  
 Time after/before HT [MET]: -0:45  
 Coordinates [UTM-ED50] Easting: 588553  
 Coordinates [UTM-ED50] Northing: 5684417  
 Water-Bottom Interface Siltpr. [m TAW]: -13.98  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: -14.26  
 Surface Elevation [m TAW]: 5.88

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.60	8.4	5.6	147
4.89	8.5	6.3	68
4.15	8.6	6.3	70
3.33	8.6	6.3	70
2.54	8.6	6.3	73
1.61	8.6	6.3	62
0.59	8.6	6.3	64
-0.41	8.6	6.5	56
-1.26	8.6	6.6	69
-2.08	8.6	6.5	52
-3.01	8.6	6.6	71
-4.14	8.6	6.8	90
-5.18	8.6	6.8	129
-6.12	8.5	6.9	141
-6.98	8.6	7.0	146
-7.90	8.5	7.0	157
-9.04	8.5	7.1	215
-10.01	8.5	7.1	168
-11.01	8.4	7.2	200
-11.91	8.4	7.3	194
-12.74	8.3	7.3	192
-13.77	8.3	7.4	206
-13.98	8.3	7.5	219

Depth Avg    8.5    6.7    112

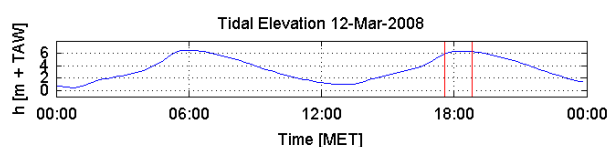


**Siltprofiler**

Date & Time [MET]: 12/3/2008 18:49  
 Time after/before HT [MET]: 0:29  
 Coordinates [UTM-ED50] Easting: 588567  
 Coordinates [UTM-ED50] Northing: 5684419  
 Water-Bottom Interface Siltpr. [m TAW]: -13.95  
 Waterdepth 210 kHz Echo [m TAW]: -13.96  
 Waterdepth 33 kHz Echo [m TAW]: -14.05  
 Surface Elevation [m TAW]: 6.27

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.99	6.6	7.4	113
5.36	7.4	7.3	124
4.64	7.8	7.3	129
3.61	8.0	7.3	152
2.73	8.1	7.3	167
1.86	8.2	7.3	178
1.00	8.2	7.3	174
-0.13	8.2	7.2	178
-1.23	8.2	7.2	176
-2.27	8.2	7.2	180
-3.32	8.2	7.3	180
-4.22	8.2	7.3	194
-5.09	8.2	7.3	210
-6.11	8.2	7.3	188
-7.20	8.2	7.3	216
-8.11	8.2	7.3	221
-9.14	8.3	7.3	248
-10.11	8.2	7.4	336
-11.09	8.2	7.5	370
-11.99	8.2	7.5	394
-12.88	8.1	7.6	402
-13.72	8.1	7.6	728
-13.95	8.1	7.6	19131

Depth Avg    8.1    7.3    264



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

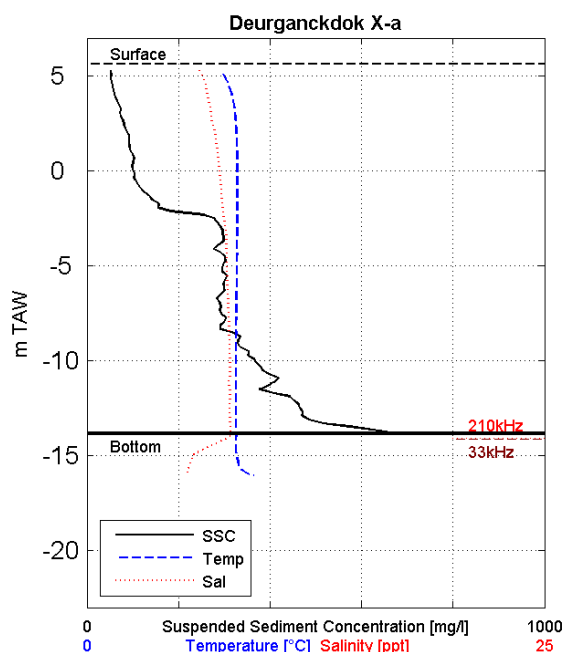
Sourcefile(s):

4158Xa\_ctd.sil

4173Xa\_ctd.sil

Location:

Deurganckdok

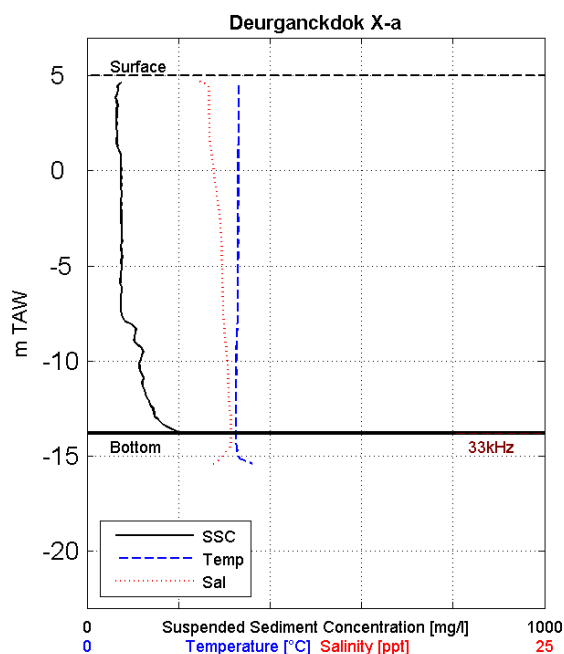


**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:44  
Time after/before HT [MET]: 1:24  
Coordinates [UTM-ED50] Easting: 588563  
Coordinates [UTM-ED50] Northing: 5684405  
Water-Bottom Interface Siltpr. [m TAW]: -13.83  
Waterdepth 210 kHz Echo [m TAW]: -14.09  
Waterdepth 33 kHz Echo [m TAW]: -14.11  
Surface Elevation [m TAW]: 5.64

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.36	7.3	6.1	52
4.68	7.6	6.4	52
3.96	7.9	6.6	60
3.14	8.1	6.8	72
2.30	8.1	6.9	82
1.38	8.2	7.1	92
0.31	8.1	7.2	98
-0.83	8.2	7.3	113
-1.95	8.3	7.4	150
-3.13	8.2	7.6	292
-4.25	8.2	7.6	290
-5.18	8.2	7.6	292
-6.10	8.2	7.7	298
-6.97	8.1	7.7	296
-7.88	8.1	7.7	301
-8.78	8.1	7.8	333
-9.73	8.1	7.8	348
-10.58	8.1	7.8	384
-11.34	8.1	7.8	380
-12.09	8.1	7.8	455
-12.88	8.1	7.8	465
-13.70	8.1	7.8	627
-13.83	8.1	7.8	668

Depth Avg 8.1 7.4 246

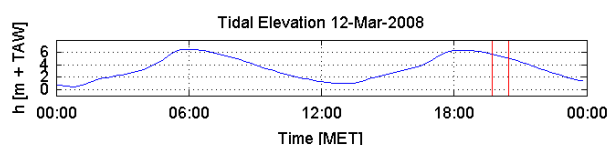


**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:27  
Time after/before HT [MET]: 2:07  
Coordinates [UTM-ED50] Easting: 588579  
Coordinates [UTM-ED50] Northing: 5684416  
Water-Bottom Interface Siltpr. [m TAW]: -13.82  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: -13.83  
Surface Elevation [m TAW]: 5.00

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.71	8.3	5.8	80
4.01	8.3	6.7	65
3.31	8.3	6.7	62
2.56	8.3	6.7	66
1.68	8.3	6.7	65
0.58	8.3	6.8	72
-0.40	8.3	7.0	72
-1.45	8.2	7.1	73
-2.39	8.2	7.2	67
-3.29	8.2	7.3	77
-4.35	8.2	7.4	73
-5.33	8.2	7.4	73
-6.26	8.2	7.4	75
-7.19	8.2	7.4	72
-8.22	8.2	7.5	100
-9.13	8.2	7.6	107
-9.95	8.1	7.7	116
-10.66	8.1	7.7	119
-11.37	8.1	7.7	120
-12.19	8.1	7.8	137
-12.97	8.2	7.8	148
-13.73	8.1	7.9	191
-13.82	8.1	7.9	193

Depth Avg 8.2 7.2 89



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

## **F.2 Location Xb**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

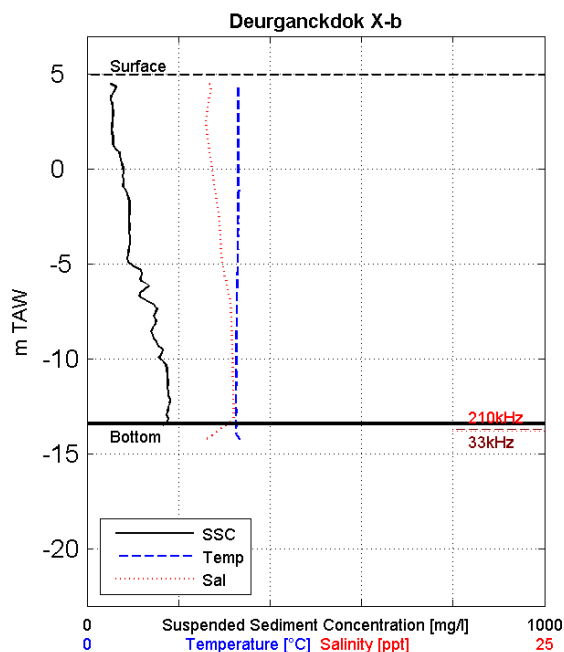
Sourcefile(s):

4002Xb\_ctd.sil

4019Xb\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 08:10

Time after/before HT [MET]: 2:10

Coordinates [UTM-ED50] Easting: 588592

Coordinates [UTM-ED50] Northing: 5684476

Water-Bottom Interface Siltpr. [m TAW]: -13.40

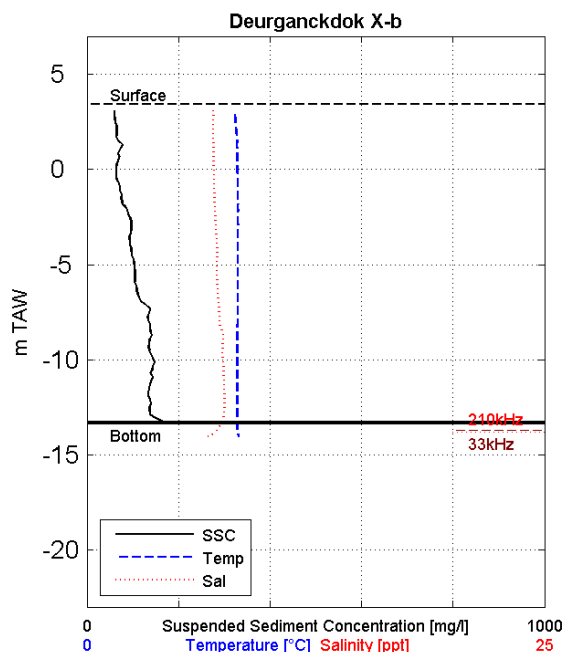
Waterdepth 210 kHz Echo [m TAW]: -13.77

Waterdepth 33 kHz Echo [m TAW]: -13.69

Surface Elevation [m TAW]: 4.94

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.60	8.2	NaN	36
4.50	8.2	6.6	59
4.43	8.2	6.8	65
3.77	8.3	6.7	51
2.72	8.3	6.5	55
1.81	8.3	6.6	54
0.83	8.3	6.7	70
-0.25	8.3	6.8	74
-1.35	8.2	7.0	88
-2.43	8.3	7.2	95
-3.36	8.2	7.3	92
-4.27	8.3	7.3	91
-5.40	8.2	7.5	118
-6.29	8.2	7.7	126
-7.15	8.1	7.8	149
-8.08	8.2	7.9	153
-8.97	8.2	7.9	142
-9.87	8.2	7.9	156
-10.68	8.1	8.0	171
-11.61	8.1	8.0	177
-12.40	8.1	8.0	176
-13.23	8.1	7.9	175
-13.40	8.1	7.7	173

Depth Avg 8.2 7.3 110



**Siltprofiler**

Date & Time [MET]: 12/3/2008 09:26

Time after/before HT [MET]: 3:26

Coordinates [UTM-ED50] Easting: 588597

Coordinates [UTM-ED50] Northing: 5684477

Water-Bottom Interface Siltpr. [m TAW]: -13.31

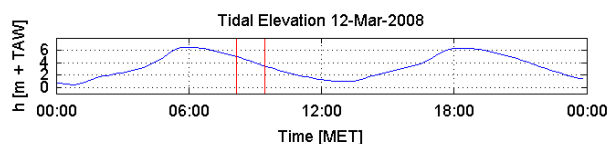
Waterdepth 210 kHz Echo [m TAW]: -13.81

Waterdepth 33 kHz Echo [m TAW]: -13.72

Surface Elevation [m TAW]: 3.43

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.14	8.0	6.9	59
2.37	8.1	6.9	62
1.60	8.2	6.9	63
0.72	8.2	6.9	70
-0.07	8.2	6.9	62
-0.93	8.3	6.9	73
-1.71	8.2	7.0	81
-2.53	8.2	7.0	97
-3.34	8.2	7.0	94
-4.22	8.2	7.1	96
-5.08	8.2	7.1	101
-5.98	8.2	7.1	104
-6.69	8.2	7.1	115
-7.32	8.2	7.2	140
-7.95	8.2	7.2	141
-8.66	8.2	7.4	145
-9.52	8.2	7.4	138
-10.42	8.2	7.5	147
-11.14	8.2	7.4	139
-11.85	8.2	7.5	131
-12.50	8.2	7.5	134
-13.24	8.2	7.4	173
-13.31	8.2	7.4	178

Depth Avg 8.2 7.1 104



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

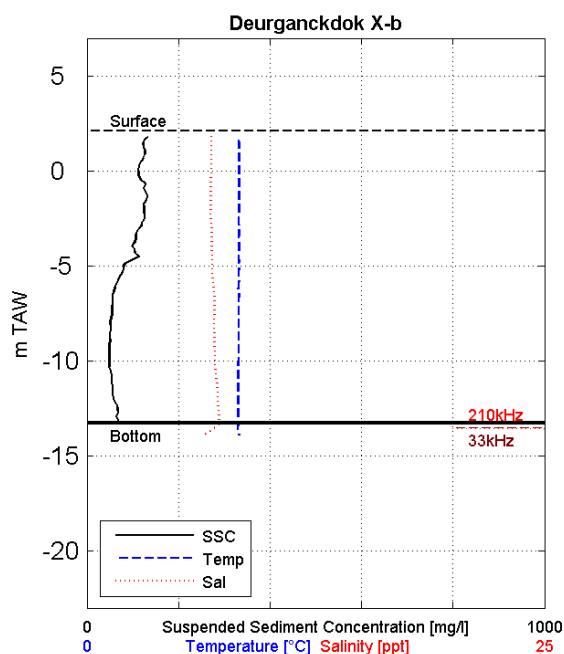
Sourcefile(s):

4034Xb\_ctd.sil

4050Xb\_ctd.sil

Location:

Deurganckdok

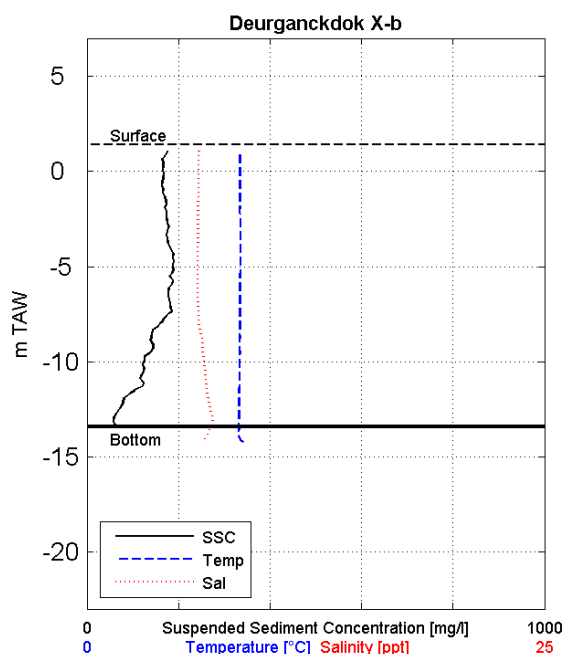


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:43  
Time after/before HT [MET]: 4:43  
Coordinates [UTM-ED50] Easting: 588611  
Coordinates [UTM-ED50] Northing: 5684500  
Water-Bottom Interface Siltpr. [m TAW]: -13.26  
Waterdepth 210 kHz Echo [m TAW]: -13.55  
Waterdepth 33 kHz Echo [m TAW]: -13.50  
Surface Elevation [m TAW]: 2.14

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.85	8.3	6.8	129
1.24	8.3	6.8	126
0.60	8.3	6.8	123
-0.15	8.2	6.8	114
-0.85	8.3	6.8	124
-1.53	8.3	6.8	124
-2.18	8.3	6.7	128
-2.94	8.3	6.8	121
-3.74	8.3	6.8	101
-4.53	8.3	6.8	113
-5.34	8.3	6.8	77
-6.05	8.3	6.9	60
-6.81	8.3	7.0	56
-7.54	8.3	7.0	52
-8.27	8.3	6.9	48
-8.98	8.2	7.0	52
-9.68	8.3	6.9	47
-10.46	8.2	7.0	53
-11.17	8.2	7.1	52
-11.82	8.2	7.1	58
-12.57	8.3	7.2	66
-13.26	8.3	7.2	77
-13.26	8.3	7.2	77

Depth Avg    8.3    6.9    85

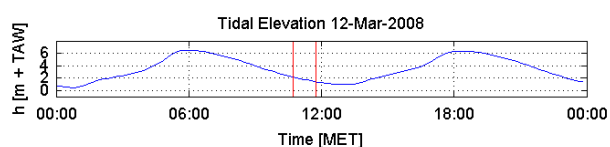


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:46  
Time after/before HT [MET]: 5:46  
Coordinates [UTM-ED50] Easting: 588614  
Coordinates [UTM-ED50] Northing: 5684484  
Water-Bottom Interface Siltpr. [m TAW]: -13.41  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 1.39

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.10	8.3	6.1	173
0.47	8.4	6.0	168
-0.22	8.4	6.1	167
-0.88	8.4	6.1	166
-1.57	8.3	6.1	171
-2.36	8.3	6.0	175
-3.03	8.3	6.0	175
-3.80	8.4	6.0	176
-4.49	8.4	6.0	188
-5.21	8.3	6.0	187
-6.00	8.3	6.0	181
-6.76	8.3	6.0	180
-7.45	8.4	6.1	177
-8.14	8.3	6.1	156
-8.79	8.4	6.3	137
-9.44	8.3	6.3	142
-10.11	8.3	6.4	120
-10.79	8.3	6.5	115
-11.39	8.4	6.5	115
-12.02	8.3	6.6	77
-12.66	8.3	6.8	64
-13.23	8.3	6.8	60
-13.41	8.3	6.8	62

Depth Avg    8.3    6.2    152



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

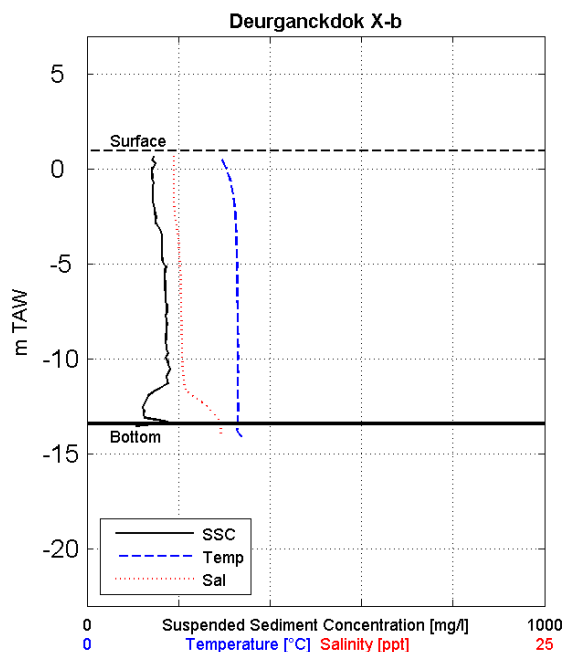
Sourcefile(s):

4065Xb\_ctd.sil

4080Xb\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:18

Time after/before HT [MET]: -5:01

Coordinates [UTM-ED50] Easting: 588605

Coordinates [UTM-ED50] Northing: 5684492

Water-Bottom Interface Siltpr. [m TAW]: -13.40

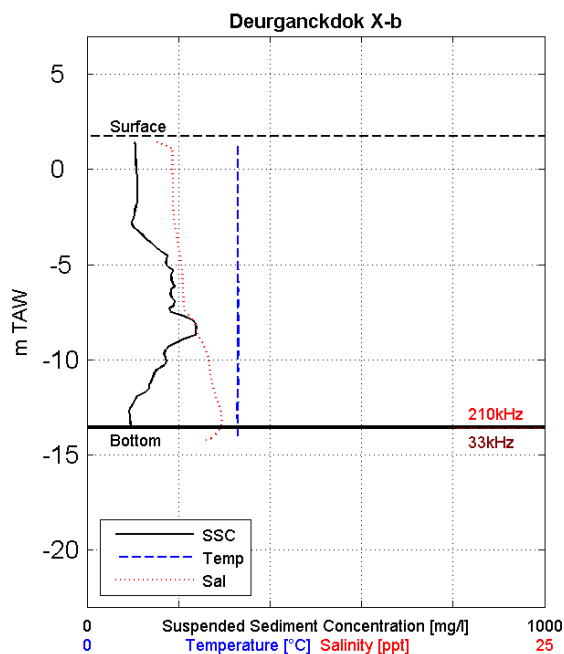
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 0.98

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.70	7.2	4.7	149
0.27	7.5	4.7	151
-0.37	7.8	4.7	141
-1.10	7.9	4.7	144
-1.70	8.0	4.7	142
-2.31	8.1	4.8	149
-2.89	8.1	4.9	149
-3.64	8.1	5.0	163
-4.36	8.2	5.0	163
-5.10	8.2	5.1	169
-5.89	8.2	5.1	170
-6.64	8.2	5.1	171
-7.35	8.2	5.1	174
-8.05	8.2	5.1	172
-8.72	8.2	5.1	172
-9.45	8.3	5.2	171
-10.12	8.2	5.2	177
-10.74	8.3	5.2	176
-11.35	8.2	5.3	179
-11.99	8.2	5.8	129
-12.68	8.2	6.7	124
-13.29	8.2	7.3	123
-13.40	8.2	7.3	142

Depth Avg 8.1 5.2 159



**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:15

Time after/before HT [MET]: -4:04

Coordinates [UTM-ED50] Easting: 588621

Coordinates [UTM-ED50] Northing: 5684475

Water-Bottom Interface Siltpr. [m TAW]: -13.55

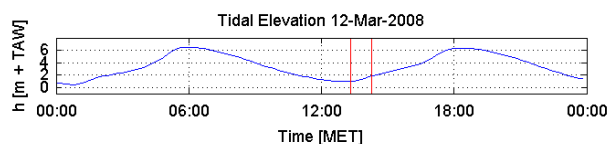
Waterdepth 210 kHz Echo [m TAW]: -13.56

Waterdepth 33 kHz Echo [m TAW]: -13.62

Surface Elevation [m TAW]: 1.76

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.44	8.2	3.8	103
0.97	8.1	4.7	103
0.25	8.2	4.7	107
-0.54	8.2	4.7	112
-1.20	8.2	4.7	107
-1.97	8.3	4.7	108
-2.63	8.2	4.7	101
-3.38	8.2	4.9	118
-4.08	8.2	5.0	151
-4.94	8.2	5.1	171
-5.73	8.2	5.2	188
-6.46	8.2	5.2	177
-7.10	8.3	5.3	188
-7.80	8.2	5.7	225
-8.44	8.2	6.0	239
-9.07	8.2	6.3	191
-9.84	8.2	6.6	166
-10.62	8.3	6.7	142
-11.46	8.2	6.9	138
-12.16	8.3	7.1	100
-12.80	8.2	7.3	91
-13.49	8.2	7.3	97
-13.55	8.2	7.3	95

Depth Avg 8.2 5.6 144



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

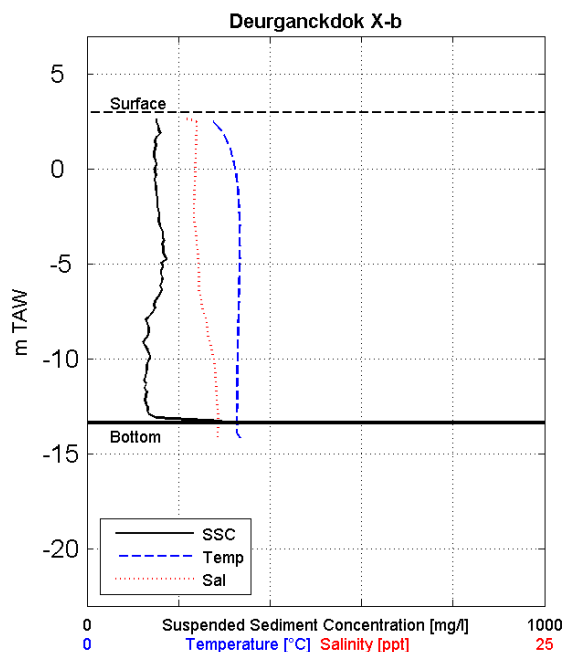
Sourcefile(s):

4096Xb\_ctd.sil

4111Xb\_ctd.sil

Location:

Deurganckdok

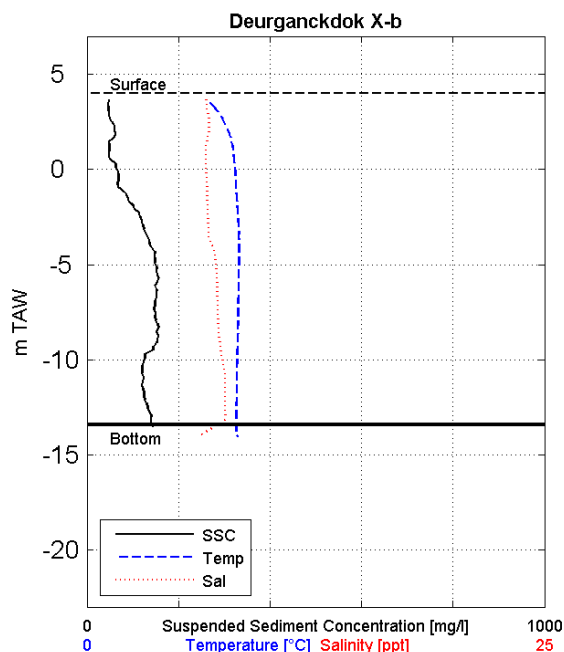


**Siltprofiler**

Date & Time [MET]: 12/3/2008 15:35  
Time after/before HT [MET]: -2:44  
Coordinates [UTM-ED50] Easting: 588623  
Coordinates [UTM-ED50] Northing: 5684491  
Water-Bottom Interface Siltpr. [m TAW]: -13.38  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 2.97

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.69	6.7	4.9	150
2.04	7.3	6.0	154
1.29	7.8	6.0	149
0.52	8.0	5.9	149
-0.20	8.1	5.9	149
-0.99	8.2	5.9	152
-1.78	8.2	5.8	150
-2.50	8.3	5.8	158
-3.23	8.3	5.9	165
-4.06	8.3	6.0	163
-4.82	8.3	6.1	177
-5.49	8.3	6.1	159
-6.24	8.3	6.1	165
-7.02	8.2	6.2	145
-7.79	8.2	6.4	128
-8.60	8.3	6.6	137
-9.42	8.2	6.8	128
-10.20	8.2	6.9	133
-10.96	8.2	7.0	125
-11.81	8.2	7.1	130
-12.59	8.3	7.1	136
-13.33	8.2	7.2	176
-13.38	8.2	7.2	155

Depth Avg 8.1 6.3 148

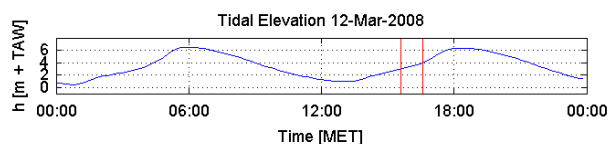


**Siltprofiler**

Date & Time [MET]: 12/3/2008 16:35  
Time after/before HT [MET]: -1:44  
Coordinates [UTM-ED50] Easting: 588618  
Coordinates [UTM-ED50] Northing: 5684480  
Water-Bottom Interface Siltpr. [m TAW]: -13.42  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 3.99

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.71	6.5	6.5	46
3.05	7.1	6.6	47
2.29	7.6	6.7	58
1.61	7.9	6.6	55
0.83	8.0	6.5	48
0.01	8.1	6.5	60
-0.78	8.1	6.5	63
-1.55	8.2	6.6	84
-2.32	8.3	6.6	113
-3.09	8.3	6.6	127
-4.04	8.3	6.8	137
-4.84	8.3	7.0	143
-5.72	8.2	7.1	155
-6.62	8.2	7.1	151
-7.45	8.3	7.1	150
-8.31	8.3	7.2	157
-9.03	8.2	7.3	150
-9.83	8.2	7.3	128
-10.70	8.1	7.5	120
-11.51	8.1	7.5	126
-12.33	8.2	7.5	129
-13.32	8.2	7.3	140
-13.42	8.1	7.1	4396

Depth Avg 8.1 6.9 117



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

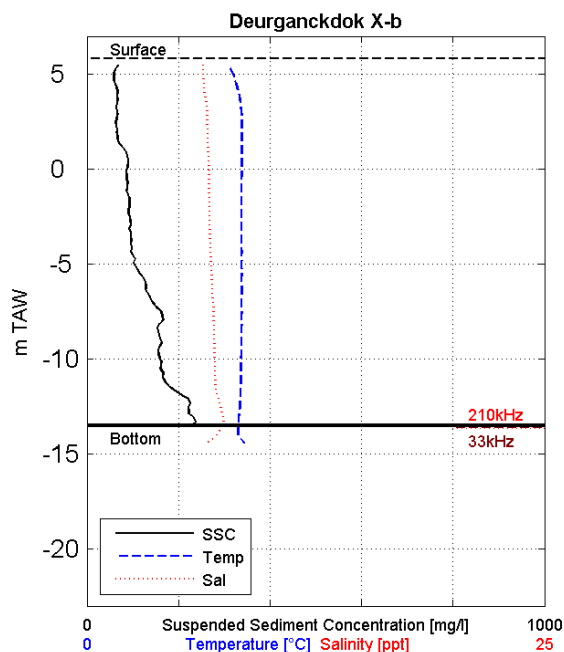
Sourcefile(s):

4126Xb\_ctd.sil

4142Xb\_ctd.sil

Location:

Deurganckdok

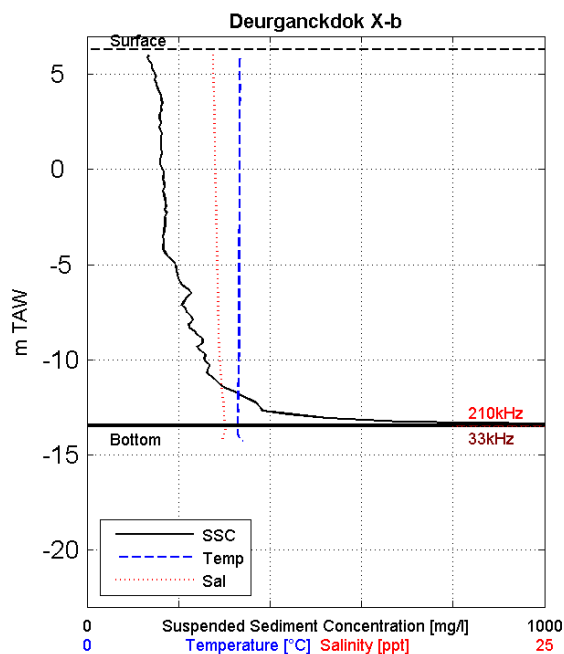


## Siltprofiler

Date & Time [MET]: 12/3/2008 17:31  
 Time after/before HT [MET]: -0:48  
 Coordinates [UTM-ED50] Easting: 588605  
 Coordinates [UTM-ED50] Northing: 5684504  
 Water-Bottom Interface Siltpr. [m TAW]: -13.49  
 Waterdepth 210 kHz Echo [m TAW]: -13.65  
 Waterdepth 33 kHz Echo [m TAW]: -13.61  
 Surface Elevation [m TAW]: 5.82

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.53	7.7	6.3	60
4.81	8.1	6.3	57
4.01	8.3	6.4	65
3.17	8.4	6.5	64
2.44	8.4	6.6	62
1.50	8.5	6.6	67
0.44	8.5	6.6	89
-0.59	8.5	6.7	91
-1.46	8.4	6.7	94
-2.36	8.4	6.7	93
-3.21	8.4	6.7	92
-4.05	8.4	6.7	98
-4.97	8.4	6.8	101
-5.93	8.4	6.8	122
-6.71	8.5	6.8	135
-7.56	8.4	6.9	168
-8.36	8.5	6.9	154
-9.41	8.4	6.9	158
-10.52	8.4	7.0	161
-11.48	8.4	7.0	184
-12.40	8.3	7.3	220
-13.34	8.3	7.5	236
-13.49	8.3	7.4	227

Depth Avg 8.4 6.8 118

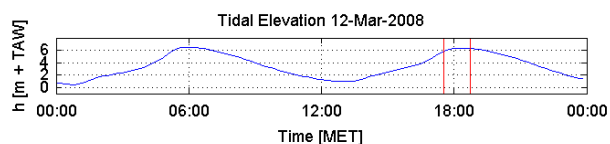


## Siltprofiler

Date & Time [MET]: 12/3/2008 18:45  
 Time after/before HT [MET]: 0:25  
 Coordinates [UTM-ED50] Easting: 588616  
 Coordinates [UTM-ED50] Northing: 5684494  
 Water-Bottom Interface Siltpr. [m TAW]: -13.49  
 Waterdepth 210 kHz Echo [m TAW]: -13.50  
 Waterdepth 33 kHz Echo [m TAW]: -13.47  
 Surface Elevation [m TAW]: 6.29

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.01	8.4	6.9	134
5.35	8.3	6.9	143
4.61	8.3	6.9	149
3.72	8.3	6.9	164
2.77	8.3	7.0	157
1.76	8.3	6.9	164
0.91	8.3	7.0	164
0.02	8.3	7.0	166
-1.00	8.3	7.0	170
-2.04	8.3	7.0	161
-2.98	8.3	7.0	171
-3.98	8.3	7.1	165
-5.07	8.3	7.1	194
-6.09	8.3	7.1	209
-7.11	8.3	7.2	204
-8.09	8.3	7.2	221
-9.14	8.3	7.2	255
-9.89	8.3	7.2	248
-10.78	8.3	7.3	259
-11.75	8.2	7.4	332
-12.67	8.2	7.5	383
-13.47	8.2	7.5	4362
-13.49	8.2	7.5	3146

Depth Avg 8.3 7.1 216



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

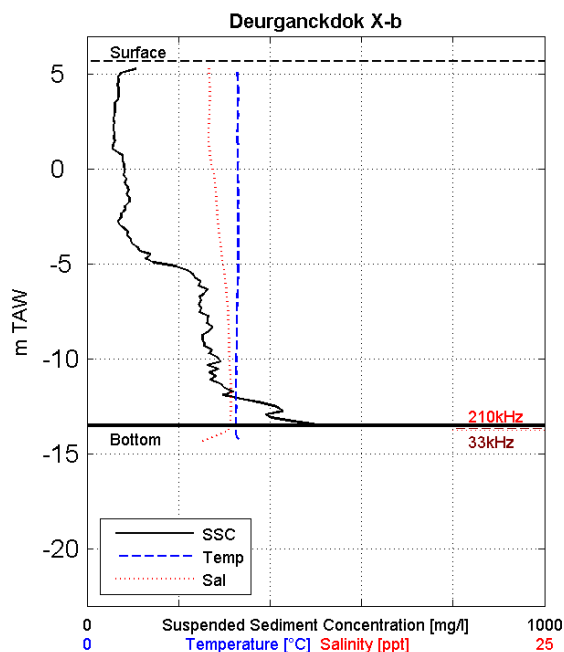
Sourcefile(s):

4157Xb\_ctd.sil

4172Xb\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:42

Time after/before HT [MET]: 1:22

Coordinates [UTM-ED50] Easting: 588600

Coordinates [UTM-ED50] Northing: 5684480

Water-Bottom Interface Siltpr. [m TAW]: -13.51

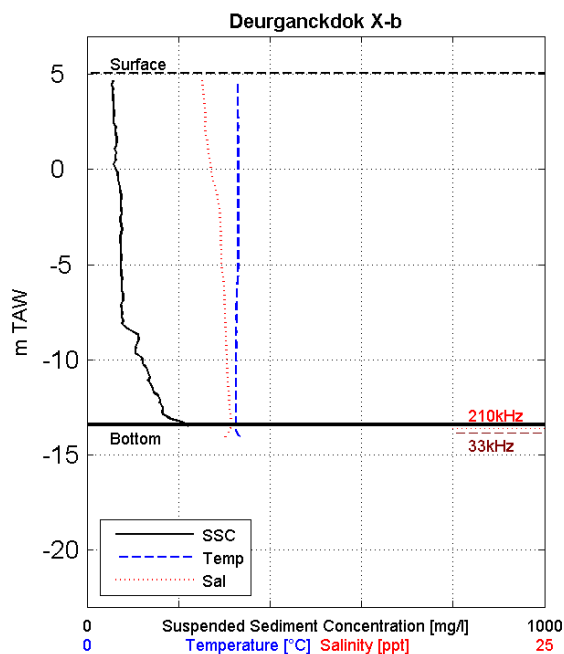
Waterdepth 210 kHz Echo [m TAW]: -13.74

Waterdepth 33 kHz Echo [m TAW]: -13.66

Surface Elevation [m TAW]: 5.67

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.39	8.1	6.7	88
5.33	8.1	6.7	89
5.29	8.2	6.7	61
5.16	8.2	6.7	62
4.34	8.3	6.7	71
3.37	8.2	6.7	62
2.39	8.3	6.6	56
1.18	8.2	6.7	58
-0.03	8.2	6.9	92
-1.14	8.2	7.0	85
-2.16	8.2	7.1	95
-3.26	8.2	7.2	101
-4.43	8.2	7.3	114
-5.64	8.3	7.5	246
-6.70	8.2	7.6	239
-7.65	8.2	7.7	295
-8.77	8.2	7.7	261
-9.72	8.1	7.8	259
-10.75	8.1	7.8	264
-11.64	8.1	7.8	353
-12.56	8.1	7.8	380
-13.49	8.1	7.8	525
-13.51	8.1	7.8	1015

Depth Avg 8.2 7.3 172



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:25

Time after/before HT [MET]: 2:05

Coordinates [UTM-ED50] Easting: 588640

Coordinates [UTM-ED50] Northing: 5684485

Water-Bottom Interface Siltpr. [m TAW]: -13.44

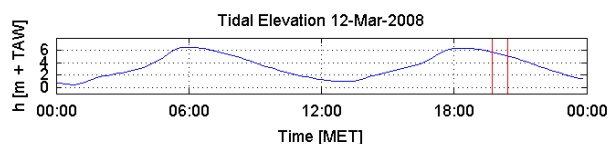
Waterdepth 210 kHz Echo [m TAW]: -13.63

Waterdepth 33 kHz Echo [m TAW]: -13.85

Surface Elevation [m TAW]: 5.04

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.76	8.2	6.3	58
4.24	8.2	6.3	56
3.62	8.2	6.4	55
2.85	8.2	6.5	58
2.03	8.2	6.5	55
1.15	8.2	6.6	59
0.40	8.2	6.7	59
-0.56	8.3	6.9	69
-1.59	8.2	7.1	73
-2.67	8.3	7.3	71
-3.67	8.3	7.3	72
-4.60	8.2	7.3	74
-5.46	8.2	7.4	73
-6.21	8.1	7.5	74
-7.19	8.1	7.5	75
-8.33	8.1	7.5	89
-9.29	8.2	7.6	105
-10.15	8.1	7.6	121
-10.96	8.1	7.7	139
-11.78	8.1	7.7	151
-12.58	8.1	7.8	161
-13.40	8.1	7.9	220
-13.44	8.1	7.9	227

Depth Avg 8.2 7.2 87



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

### **F.3 Location Xc**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

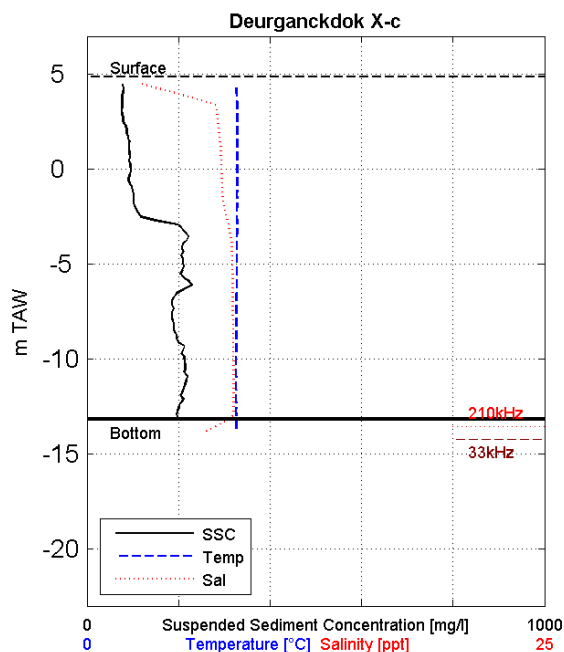
Sourcefile(s):

4003Xc\_ctd.sil

4018Xc\_ctd.sil

Location:

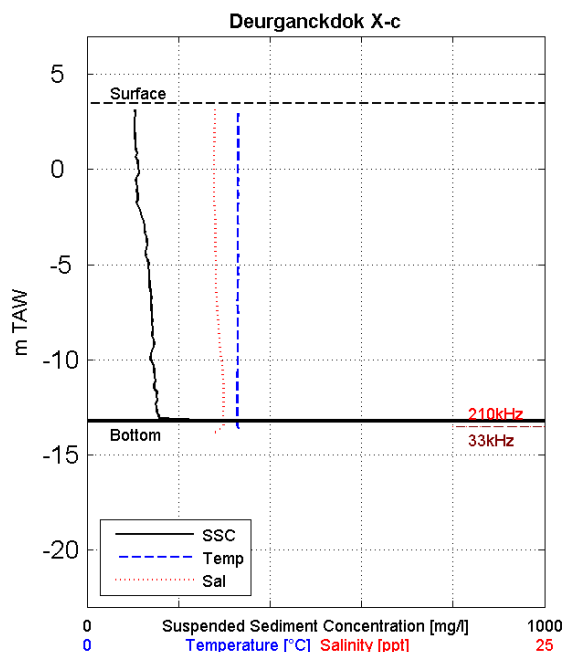
Deurganckdok



## Siltprofiler

Date & Time [MET]: 12/3/2008 08:16  
 Time after/before HT [MET]: 2:16  
 Coordinates [UTM-ED50] Easting: 588644  
 Coordinates [UTM-ED50] Northing: 5684575  
 Water-Bottom Interface Siltpr. [m TAW]: -13.19  
 Waterdepth 210 kHz Echo [m TAW]: -13.54  
 Waterdepth 33 kHz Echo [m TAW]: -14.21  
 Surface Elevation [m TAW]: 4.85

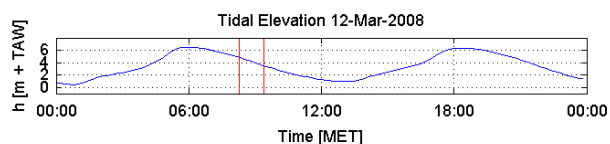
Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.56	8.1	2.7	78
3.87	8.2	5.3	75
3.10	8.2	7.1	75
2.26	8.2	7.2	85
1.40	8.2	7.3	92
0.52	8.2	7.3	92
-0.46	8.2	7.3	90
-1.38	8.1	7.4	101
-2.26	8.2	7.6	107
-3.06	8.2	7.7	207
-3.95	8.2	7.9	208
-4.89	8.2	7.9	206
-5.74	8.1	7.9	216
-6.61	8.1	8.0	193
-7.49	8.2	8.0	191
-8.34	8.1	8.0	187
-9.27	8.2	8.0	212
-10.06	8.1	8.0	213
-10.90	8.1	8.0	221
-11.73	8.2	8.0	210
-12.48	8.1	8.0	201
-13.19	8.1	7.7	202
Depth Avg			
8.2 7.5 156			



## Siltprofiler

Date & Time [MET]: 12/3/2008 09:23  
 Time after/before HT [MET]: 3:23  
 Coordinates [UTM-ED50] Easting: 588649  
 Coordinates [UTM-ED50] Northing: 5684552  
 Water-Bottom Interface Siltpr. [m TAW]: -13.25  
 Waterdepth 210 kHz Echo [m TAW]: -13.53  
 Waterdepth 33 kHz Echo [m TAW]: -13.52  
 Surface Elevation [m TAW]: 3.48

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.19	8.1	7.0	58
2.87	8.3	7.0	100
2.21	8.2	7.0	103
1.36	8.3	6.9	104
0.49	8.3	6.9	111
-0.33	8.3	6.9	107
-1.23	8.3	6.9	110
-2.04	8.2	7.0	112
-2.87	8.3	7.0	125
-3.70	8.2	7.0	129
-4.57	8.2	7.0	132
-5.32	8.2	7.0	139
-6.07	8.2	7.0	136
-6.91	8.2	7.1	139
-7.77	8.2	7.1	139
-8.62	8.2	7.2	142
-9.44	8.2	7.3	139
-10.15	8.2	7.3	144
-10.91	8.2	7.4	149
-11.65	8.2	7.5	148
-12.47	8.1	7.4	151
-13.24	8.2	7.5	1006
-13.25	8.2	7.5	139
Depth Avg			
8.2 7.1 129			



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

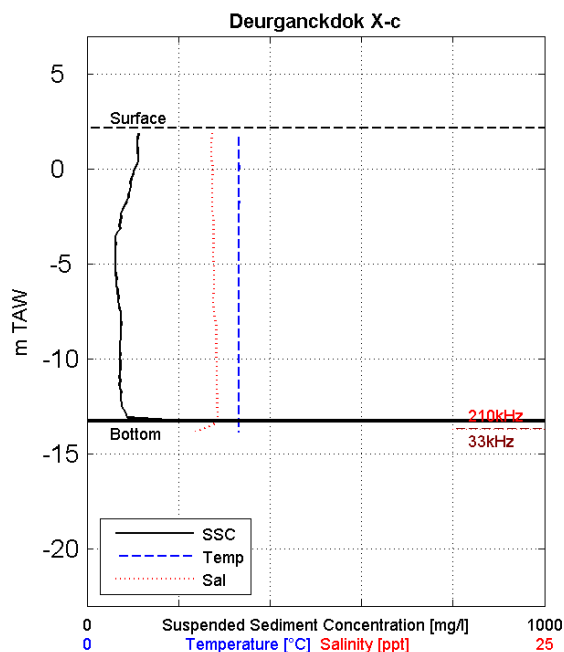
Sourcefile(s):

4033Xc\_ctd.sil

4049Xc\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 10:41

Time after/before HT [MET]: 4:41

Coordinates [UTM-ED50] Easting: 588656

Coordinates [UTM-ED50] Northing: 5684549

Water-Bottom Interface Siltpr. [m TAW]: -13.25

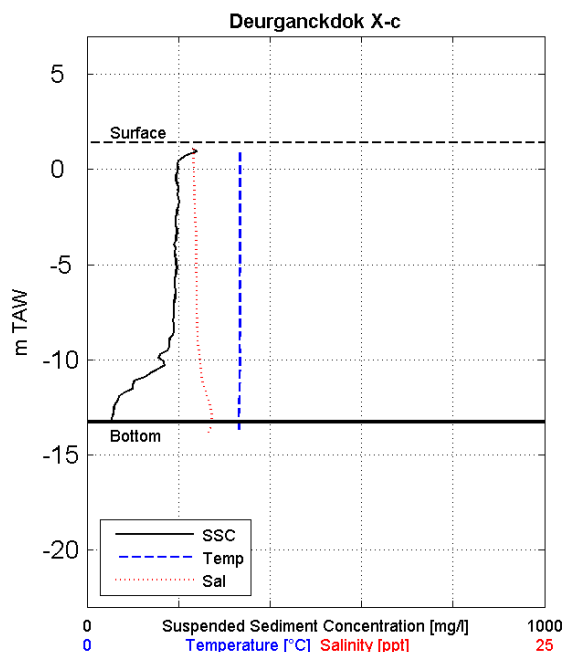
Waterdepth 210 kHz Echo [m TAW]: -13.68

Waterdepth 33 kHz Echo [m TAW]: -13.64

Surface Elevation [m TAW]: 2.18

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.89	8.3	6.8	110
1.38	8.2	6.8	109
0.96	8.3	6.8	110
0.23	8.3	6.8	109
-0.40	8.3	6.8	96
-1.16	8.3	6.8	93
-1.90	8.3	6.8	80
-2.55	8.3	6.9	72
-3.36	8.3	6.9	65
-4.11	8.3	6.9	60
-4.91	8.3	6.9	60
-5.70	8.4	6.9	65
-6.52	8.3	6.9	65
-7.29	8.2	6.9	72
-8.02	8.3	7.0	72
-8.68	8.2	7.1	73
-9.39	8.3	7.1	71
-10.23	8.3	7.1	72
-11.03	8.3	7.1	73
-11.83	8.3	7.1	74
-12.55	8.3	7.1	80
-13.23	8.3	7.1	831
-13.25	8.2	7.1	2473

Depth Avg 8.3 6.9 81



**Siltprofiler**

Date & Time [MET]: 12/3/2008 11:43

Time after/before HT [MET]: 5:43

Coordinates [UTM-ED50] Easting: 588642

Coordinates [UTM-ED50] Northing: 5684553

Water-Bottom Interface Siltpr. [m TAW]: -13.29

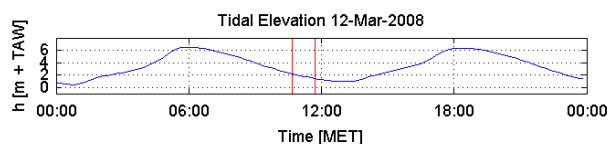
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 1.42

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.13	8.3	5.8	220
1.10	8.3	5.8	246
1.08	8.4	5.8	240
1.00	8.3	5.8	252
0.39	8.3	5.8	199
-0.44	8.3	5.8	194
-1.28	8.3	5.8	199
-2.06	8.4	5.9	197
-2.84	8.3	5.9	186
-3.56	8.3	5.9	193
-4.40	8.3	6.0	191
-5.25	8.4	6.0	195
-6.04	8.3	6.0	190
-6.76	8.3	6.0	191
-7.61	8.3	6.0	191
-8.39	8.3	6.0	188
-9.25	8.3	6.0	179
-10.05	8.3	6.2	168
-10.81	8.4	6.2	132
-11.53	8.3	6.4	105
-12.26	8.3	6.7	61
-13.06	8.3	6.8	54
-13.29	8.3	6.8	140

Depth Avg 8.3 6.1 172



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

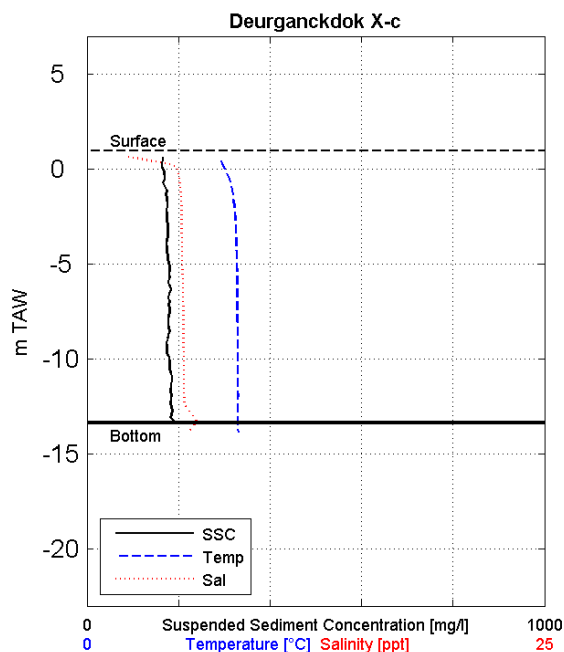
Sourcefile(s):

4064Xc\_ctd.sil

4079Xc\_ctd.sil

Location:

Deurganckdok

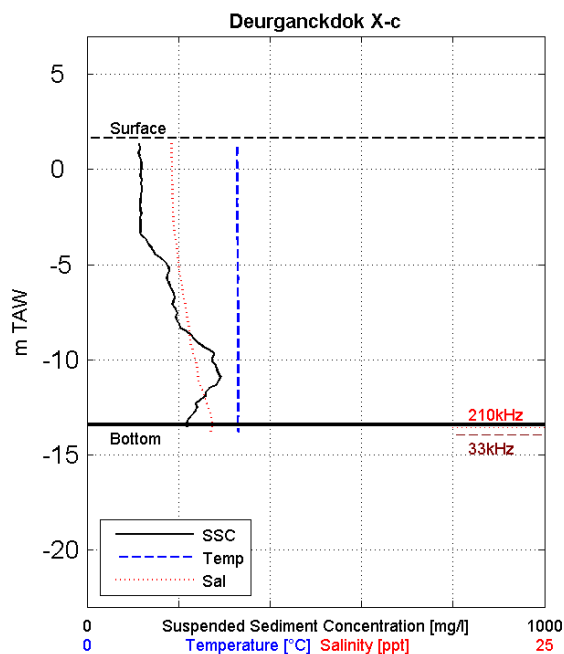


## Siltprofiler

Date & Time [MET]: 12/3/2008 13:16  
Time after/before HT [MET]: -5:03  
Coordinates [UTM-ED50] Easting: 588639  
Coordinates [UTM-ED50] Northing: 5684530  
Water-Bottom Interface Siltpr. [m TAW]: -13.34  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 0.97

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.66	7.3	2.1	164
0.07	7.4	4.9	162
-0.49	7.7	5.0	168
-1.07	7.9	5.1	173
-1.75	8.0	5.1	176
-2.48	8.1	5.2	175
-3.23	8.1	5.2	175
-3.88	8.2	5.2	172
-4.54	8.2	5.2	177
-5.41	8.2	5.2	180
-6.05	8.2	5.2	177
-6.71	8.2	5.2	177
-7.42	8.2	5.3	179
-8.06	8.2	5.3	177
-8.72	8.2	5.3	179
-9.35	8.2	5.3	174
-9.82	8.2	5.3	179
-10.43	8.2	5.3	181
-11.13	8.2	5.3	186
-11.85	8.2	5.3	184
-12.47	8.2	5.3	185
-13.11	8.2	5.9	180
-13.34	8.2	5.9	163

Depth Avg    8.1    5.1    177

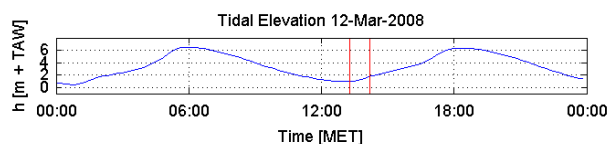


## Siltprofiler

Date & Time [MET]: 12/3/2008 14:10  
Time after/before HT [MET]: -4:09  
Coordinates [UTM-ED50] Easting: 588663  
Coordinates [UTM-ED50] Northing: 5684542  
Water-Bottom Interface Siltpr. [m TAW]: -13.44  
Waterdepth 210 kHz Echo [m TAW]: -13.58  
Waterdepth 33 kHz Echo [m TAW]: -13.96  
Surface Elevation [m TAW]: 1.67

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.39	8.1	4.6	106
1.35	8.1	4.6	110
1.09	8.2	4.6	113
0.57	8.2	4.6	118
0.00	8.2	4.6	117
-0.62	8.2	4.6	112
-1.41	8.2	4.7	120
-2.32	8.2	4.7	116
-3.18	8.2	4.8	116
-4.02	8.3	4.9	144
-4.83	8.2	5.0	166
-5.69	8.2	5.1	174
-6.53	8.2	5.2	191
-7.18	8.2	5.4	190
-8.03	8.2	5.5	208
-8.75	8.3	5.6	230
-9.42	8.2	5.7	262
-10.26	8.3	6.0	278
-11.02	8.3	6.1	291
-11.76	8.3	6.4	261
-12.63	8.3	6.7	238
-13.43	8.2	6.8	222
-13.44	8.2	6.8	223

Depth Avg    8.2    5.3    182



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

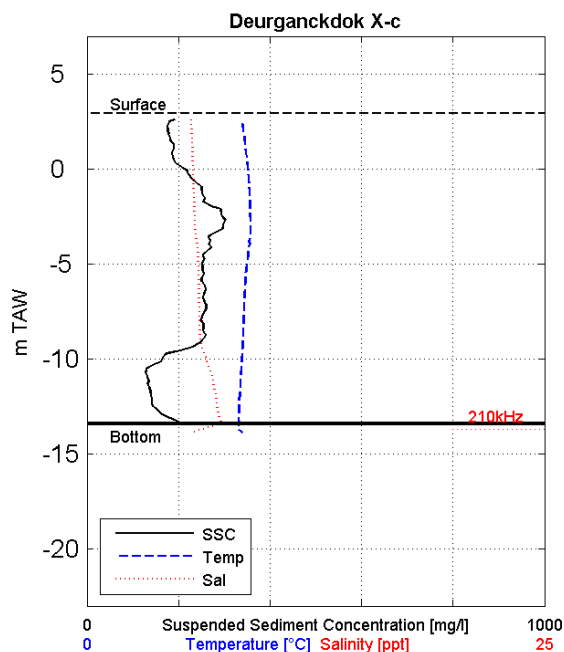
Sourcefile(s):

4095Xc\_ctd.sil

4110Xc\_ctd.sil

Location:

Deurganckdok

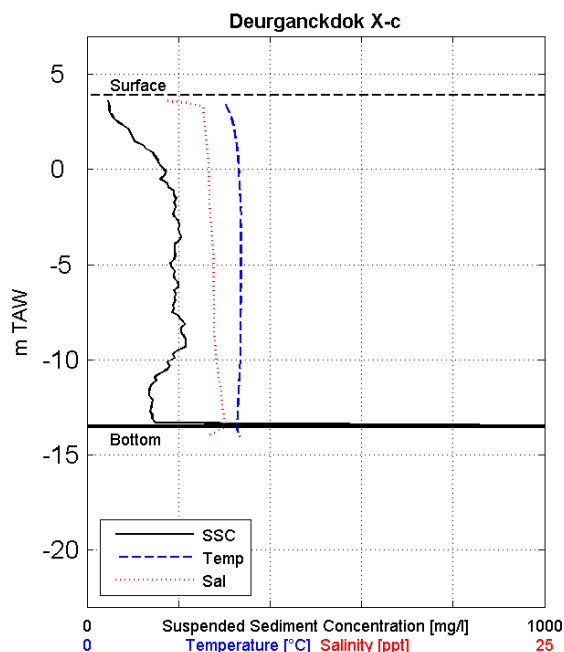


## Siltprofiler

Date & Time [MET]: 12/3/2008 15:32  
Time after/before HT [MET]: -2:47  
Coordinates [UTM-ED50] Easting: 588659  
Coordinates [UTM-ED50] Northing: 5684565  
Water-Bottom Interface Siltpr. [m TAW]: -13.40  
Waterdepth 210 kHz Echo [m TAW]: -13.70  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 2.92

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.63	8.5	5.7	203
2.03	8.5	5.7	179
1.42	8.6	5.7	184
0.81	8.7	5.8	185
0.27	8.7	5.8	197
-0.28	8.8	5.8	226
-0.84	8.8	5.8	250
-1.45	8.9	5.8	257
-2.20	8.9	5.9	296
-3.12	8.9	5.9	300
-4.07	8.8	6.0	269
-4.94	8.7	6.1	252
-5.72	8.6	6.1	254
-6.73	8.6	6.1	252
-7.69	8.5	6.1	257
-8.57	8.5	6.1	255
-9.41	8.5	6.3	207
-10.16	8.4	6.6	163
-10.94	8.4	6.8	130
-11.71	8.4	7.0	134
-12.46	8.3	7.1	144
-13.21	8.3	7.3	186
-13.40	8.3	7.2	766

Depth Avg    8.6    6.2    221

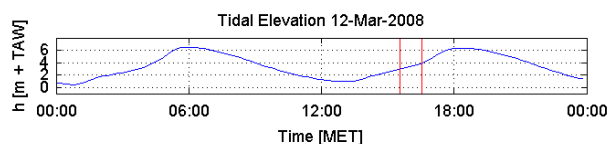


## Siltprofiler

Date & Time [MET]: 12/3/2008 16:32  
Time after/before HT [MET]: -1:47  
Coordinates [UTM-ED50] Easting: 588659  
Coordinates [UTM-ED50] Northing: 5684564  
Water-Bottom Interface Siltpr. [m TAW]: -13.50  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 3.91

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.61	7.5	4.4	45
3.07	7.8	6.3	48
2.48	8.0	6.4	69
1.81	8.1	6.5	98
1.03	8.2	6.6	141
0.31	8.2	6.6	168
-0.44	8.3	6.6	151
-1.16	8.3	6.7	195
-1.88	8.4	6.7	196
-2.86	8.5	6.8	201
-3.87	8.4	6.8	190
-4.83	8.4	6.9	184
-5.82	8.4	6.9	191
-6.76	8.4	6.9	191
-7.59	8.4	6.9	192
-8.27	8.4	6.9	207
-9.06	8.4	7.0	216
-9.98	8.4	7.0	182
-10.93	8.3	7.2	152
-11.71	8.3	7.3	132
-12.56	8.2	7.4	137
-13.33	8.2	7.5	153
-13.50	8.2	7.5	147

Depth Avg    8.3    6.8    166



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

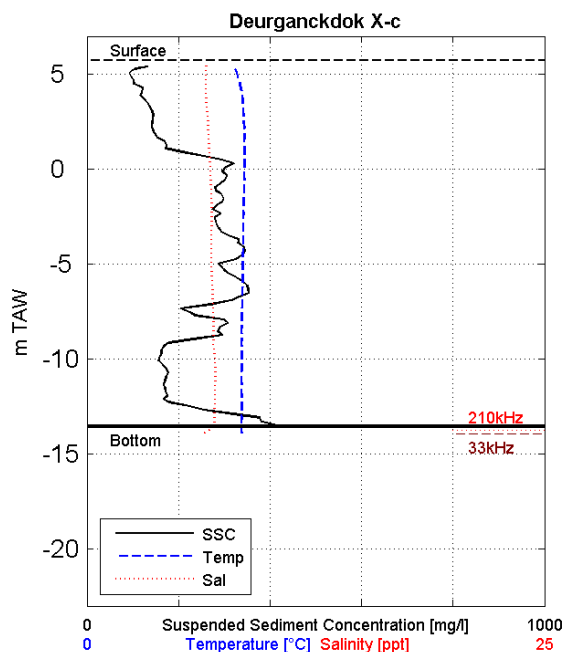
Sourcefile(s):

4125Xc\_ctd.sil

4141Xc\_ctd.sil

Location:

Deurganckdok

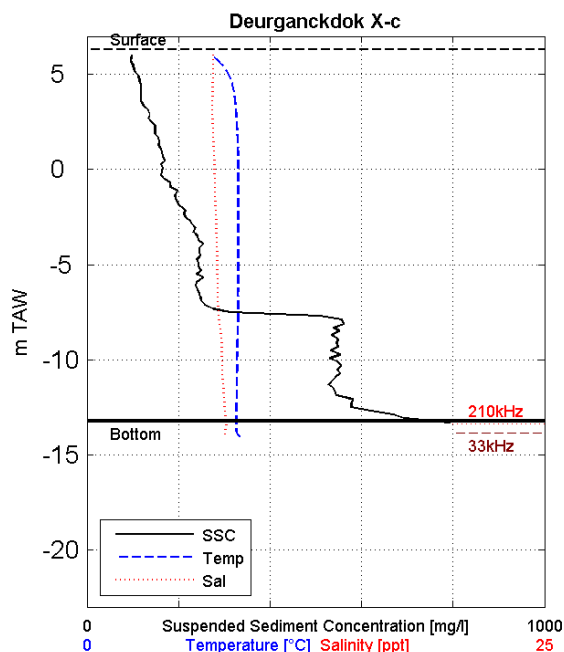


## Siltprofiler

Date & Time [MET]: 12/3/2008 17:29  
 Time after/before HT [MET]: -0:50  
 Coordinates [UTM-ED50] Easting: 588667  
 Coordinates [UTM-ED50] Northing: 5684566  
 Water-Bottom Interface Siltpr. [m TAW]: -13.55  
 Waterdepth 210 kHz Echo [m TAW]: -13.75  
 Waterdepth 33 kHz Echo [m TAW]: -13.95  
 Surface Elevation [m TAW]: 5.75

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.46	8.0	6.5	165
4.87	8.3	6.4	99
4.28	8.4	6.5	123
3.59	8.5	6.5	132
2.87	8.6	6.6	147
2.14	8.6	6.6	144
1.15	8.6	6.7	170
-0.04	8.6	6.7	290
-1.21	8.6	6.8	290
-2.26	8.6	6.8	295
-3.24	8.6	6.8	276
-4.23	8.5	6.8	342
-5.23	8.5	6.8	299
-6.26	8.5	6.8	352
-7.16	8.4	6.9	285
-8.06	8.4	6.9	312
-8.93	8.4	6.9	208
-9.87	8.4	7.0	157
-10.79	8.4	7.0	173
-11.63	8.4	7.0	174
-12.53	8.4	6.9	237
-13.47	8.4	7.0	408
-13.55	8.5	6.9	438

Depth Avg    8.5    6.8    235

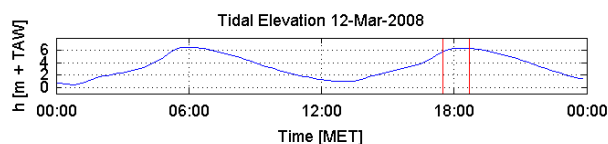


## Siltprofiler

Date & Time [MET]: 12/3/2008 18:41  
 Time after/before HT [MET]: 0:21  
 Coordinates [UTM-ED50] Easting: 588641  
 Coordinates [UTM-ED50] Northing: 5684579  
 Water-Bottom Interface Siltpr. [m TAW]: -13.22  
 Waterdepth 210 kHz Echo [m TAW]: -13.39  
 Waterdepth 33 kHz Echo [m TAW]: -13.84  
 Surface Elevation [m TAW]: 6.31

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.03	6.9	6.9	100
5.45	7.4	6.9	101
4.80	7.8	6.9	113
4.03	8.1	6.8	117
2.97	8.1	6.8	143
1.87	8.2	6.9	150
0.88	8.3	6.9	162
-0.04	8.3	6.9	164
-0.97	8.3	7.0	178
-1.91	8.3	7.0	204
-3.01	8.3	7.0	234
-4.05	8.3	7.1	248
-5.01	8.3	7.1	254
-5.75	8.3	7.1	258
-6.54	8.2	7.1	250
-7.44	8.3	7.2	280
-8.50	8.2	7.3	536
-9.59	8.2	7.4	481
-10.54	8.2	7.4	580
-11.35	8.1	7.4	535
-12.21	8.1	7.5	592
-13.15	8.1	7.6	703
-13.22	8.1	7.6	794

Depth Avg    8.1    7.1    292



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

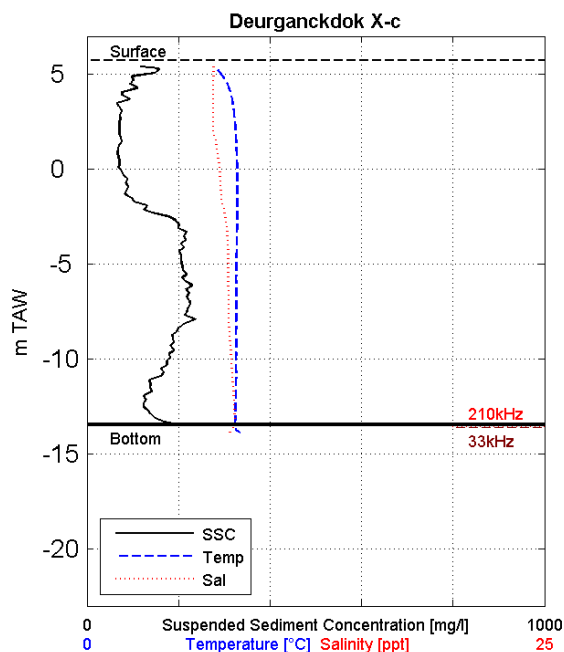
Sourcefile(s):

4156Xc\_ctd.sil

4171Xc\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:40

Time after/before HT [MET]: 1:20

Coordinates [UTM-ED50] Easting: 588651

Coordinates [UTM-ED50] Northing: 5684552

Water-Bottom Interface Siltpr. [m TAW]: -13.46

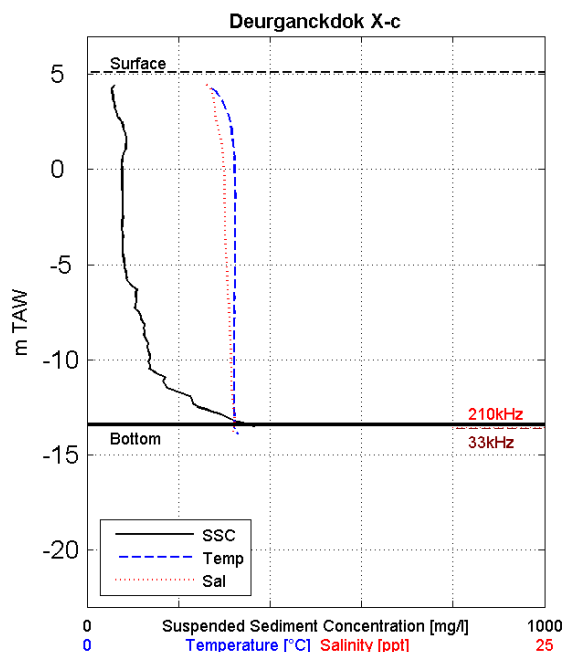
Waterdepth 210 kHz Echo [m TAW]: -13.56

Waterdepth 33 kHz Echo [m TAW]: -13.62

Surface Elevation [m TAW]: 5.70

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.42	7.0	6.9	154
4.72	7.5	6.9	94
4.00	7.9	6.9	67
3.10	8.0	6.9	64
1.91	8.1	6.9	64
0.85	8.2	7.1	61
-0.23	8.3	7.3	65
-1.22	8.2	7.3	70
-2.18	8.2	7.5	115
-3.05	8.2	7.6	195
-4.06	8.2	7.7	196
-4.89	8.2	7.7	180
-5.75	8.1	7.7	228
-6.52	8.1	7.7	221
-7.44	8.1	7.7	200
-8.30	8.2	7.7	198
-9.17	8.2	7.8	196
-9.95	8.1	7.9	167
-10.80	8.1	7.9	183
-11.66	8.1	8.0	147
-12.50	8.1	8.0	117
-13.43	8.1	8.1	215
-13.46	8.1	8.1	161

Depth Avg 8.1 7.5 145



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:22

Time after/before HT [MET]: 2:02

Coordinates [UTM-ED50] Easting: 588662

Coordinates [UTM-ED50] Northing: 5684558

Water-Bottom Interface Siltpr. [m TAW]: -13.43

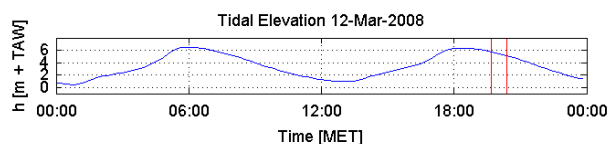
Waterdepth 210 kHz Echo [m TAW]: -13.56

Waterdepth 33 kHz Echo [m TAW]: -13.63

Surface Elevation [m TAW]: 5.08

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.57	6.5	6.4	63
3.90	7.2	6.9	56
3.13	7.6	7.0	62
2.32	7.8	7.1	77
1.42	8.0	7.3	85
0.56	8.0	7.4	77
-0.38	8.0	7.5	76
-1.42	8.1	7.5	76
-2.35	8.1	7.5	79
-3.20	8.0	7.5	76
-4.06	8.1	7.6	74
-4.94	8.1	7.6	82
-5.79	8.1	7.6	88
-6.49	8.0	7.7	108
-7.24	8.0	7.8	98
-8.17	8.0	7.8	127
-8.96	8.0	7.8	128
-9.90	8.1	7.8	139
-10.82	8.1	7.8	170
-11.70	8.1	7.9	192
-12.49	8.1	8.0	240
-13.25	8.0	8.1	322
-13.43	8.0	8.0	352

Depth Avg 7.9 7.5 110



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.4 Location Xd**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

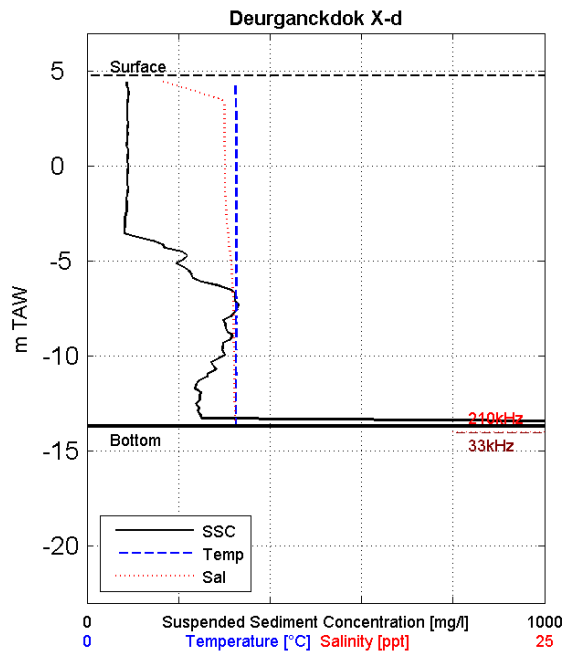
Sourcefile(s):

4004Xd\_ctd.sil

4017Xd\_ctd.sil

Location:

Deurganckdok

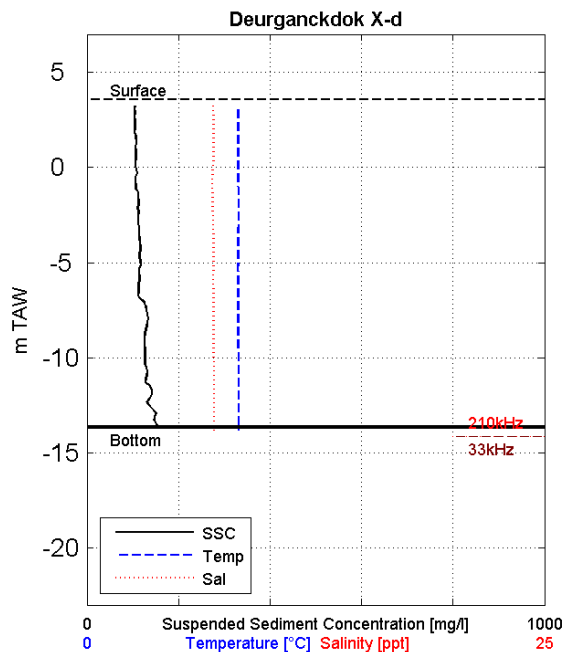


**Siltprofiler**

Date & Time [MET]: 12/3/2008 08:21  
 Time after/before HT [MET]: 2:21  
 Coordinates [UTM-ED50] Easting: 588689  
 Coordinates [UTM-ED50] Northing: 5684643  
 Water-Bottom Interface Siltpr. [m TAW]: -13.72  
 Waterdepth 210 kHz Echo [m TAW]: -13.96  
 Waterdepth 33 kHz Echo [m TAW]: -14.02  
 Surface Elevation [m TAW]: 4.76

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.47	8.1	4.1	85
3.67	8.1	6.9	86
2.68	8.1	7.5	88
1.67	8.2	7.5	87
0.69	8.2	7.5	91
-0.21	8.2	7.5	91
-1.09	8.1	7.5	89
-1.96	8.1	7.6	84
-2.90	8.1	7.6	80
-3.93	8.1	7.7	147
-5.00	8.1	7.8	187
-6.02	8.1	7.9	250
-7.00	8.1	8.0	328
-8.09	8.1	8.0	296
-9.19	8.1	8.0	305
-10.14	8.1	8.0	282
-11.10	8.1	8.0	258
-12.01	8.1	8.0	253
-12.99	8.1	8.1	234
-13.57	8.2	8.1	2949
-13.62	8.2	8.1	267
-13.67	8.1	8.1	294
-13.72	8.1	8.1	2046

Depth Avg 8.1 7.6 200

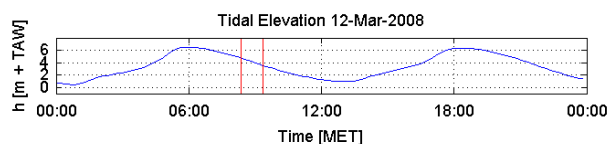


**Siltprofiler**

Date & Time [MET]: 12/3/2008 09:20  
 Time after/before HT [MET]: 3:20  
 Coordinates [UTM-ED50] Easting: 588708  
 Coordinates [UTM-ED50] Northing: 5684644  
 Water-Bottom Interface Siltpr. [m TAW]: -13.64  
 Waterdepth 210 kHz Echo [m TAW]: -14.14  
 Waterdepth 33 kHz Echo [m TAW]: -14.13  
 Surface Elevation [m TAW]: 3.55

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.27	8.3	6.9	103
3.27	8.3	6.9	104
3.25	8.2	6.9	97
3.23	8.3	6.9	101
3.19	8.3	6.9	115
2.63	8.3	6.9	101
1.81	8.2	6.9	105
0.86	8.3	6.9	106
-0.35	8.3	6.8	109
-1.54	8.3	6.8	112
-2.56	8.2	6.9	114
-3.57	8.2	6.9	113
-4.55	8.3	6.9	114
-5.53	8.3	6.9	115
-6.53	8.3	6.9	115
-7.49	8.3	6.9	131
-8.58	8.2	6.9	128
-9.66	8.3	6.9	128
-10.73	8.3	6.9	131
-11.73	8.2	6.9	142
-12.60	8.3	6.9	141
-13.53	8.3	6.9	157
-13.64	8.2	6.9	158

Depth Avg 8.2 6.9 119



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

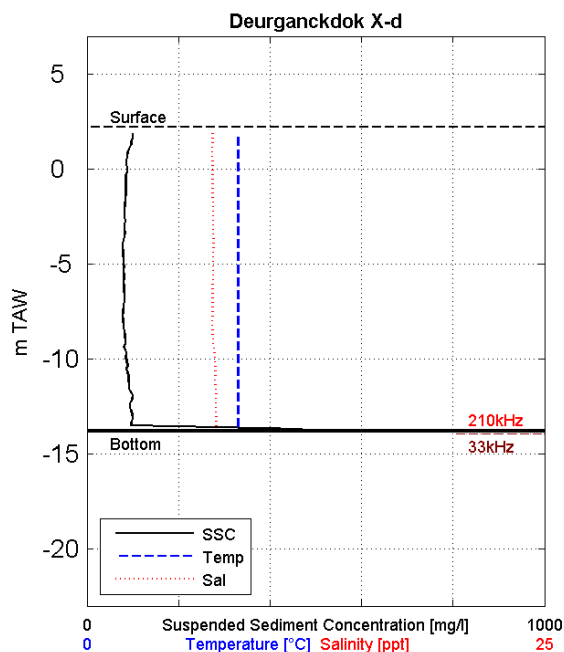
Sourcefile(s):

4032Xd\_ctd.sil

4048Xd\_ctd.sil

Location:

Deurganckdok

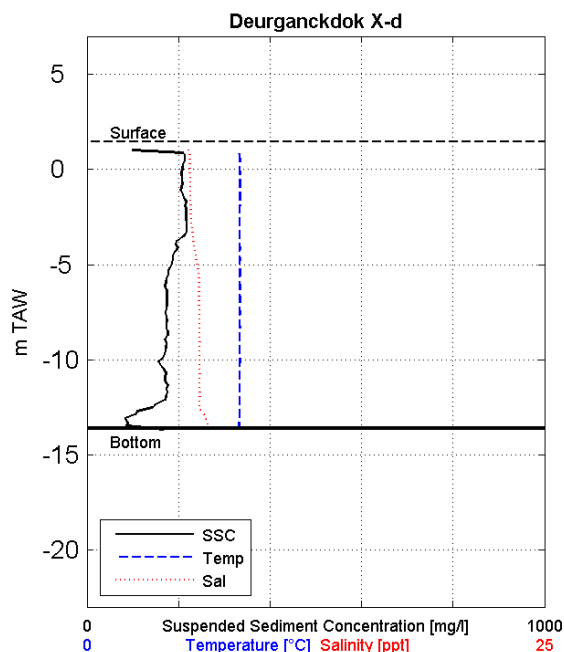


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:37  
 Time after/before HT [MET]: 4:37  
 Coordinates [UTM-ED50] Easting: 588696  
 Coordinates [UTM-ED50] Northing: 5684613  
 Water-Bottom Interface Siltpr. [m TAW]: -13.78  
 Waterdepth 210 kHz Echo [m TAW]: -13.93  
 Waterdepth 33 kHz Echo [m TAW]: -13.92  
 Surface Elevation [m TAW]: 2.24

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.94	8.2	6.8	98
1.39	8.2	6.9	95
0.78	8.3	6.8	85
0.06	8.3	6.9	88
-0.60	8.3	6.9	85
-1.31	8.3	6.8	83
-2.11	8.2	6.8	81
-2.96	8.2	6.9	85
-3.79	8.2	6.9	76
-4.62	8.3	6.9	78
-5.49	8.3	6.8	79
-6.31	8.3	6.8	78
-7.24	8.3	6.9	80
-8.18	8.3	6.8	79
-9.03	8.2	6.9	81
-9.89	8.3	7.0	82
-10.69	8.2	7.0	88
-11.45	8.2	7.0	92
-12.30	8.2	7.0	89
-13.18	8.3	7.0	101
-13.66	8.3	7.1	704
-13.73	8.2	7.1	1643
-13.78	8.2	7.1	593

Depth Avg 8.3 6.9 88

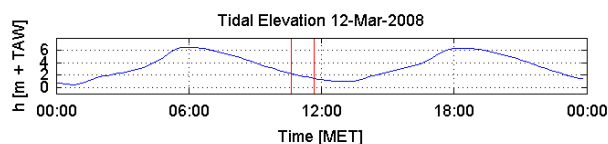


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:39  
 Time after/before HT [MET]: 5:39  
 Coordinates [UTM-ED50] Easting: 588709  
 Coordinates [UTM-ED50] Northing: 5684645  
 Water-Bottom Interface Siltpr. [m TAW]: -13.63  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 1.45

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.03	8.3	5.5	94
0.86	8.3	5.6	213
0.82	8.3	5.6	211
0.78	8.3	5.6	214
0.29	8.3	5.6	210
-0.33	8.3	5.6	205
-1.07	8.3	5.6	203
-1.86	8.3	5.6	215
-2.62	8.4	5.7	216
-3.34	8.3	5.8	216
-4.09	8.3	5.8	203
-4.87	8.3	6.0	184
-5.68	8.3	6.1	166
-6.71	8.4	6.1	175
-7.68	8.3	6.1	174
-8.48	8.3	6.1	175
-9.36	8.3	6.1	170
-10.33	8.3	6.2	165
-11.13	8.3	6.1	170
-11.71	8.3	6.1	176
-12.52	8.3	6.2	149
-13.42	8.3	6.6	88
-13.63	8.3	6.7	76

Depth Avg 8.3 6.0 178



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

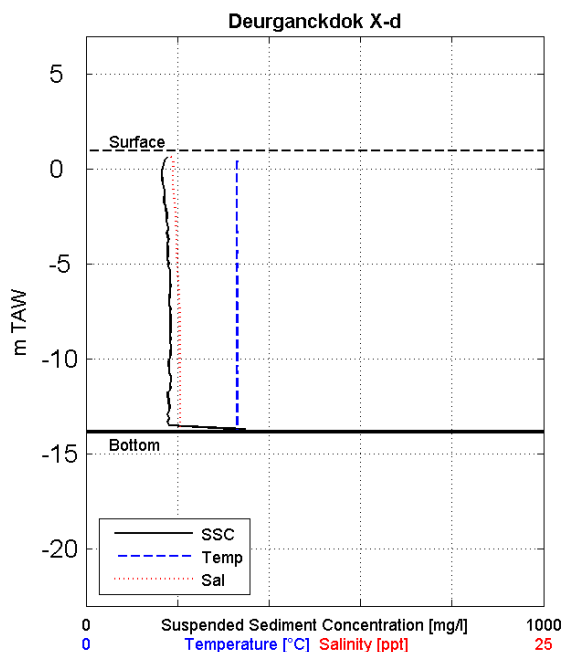
Sourcefile(s):

4063Xd\_ctd.sil

4078Xd\_ctd.sil

Location:

Deurganckdok

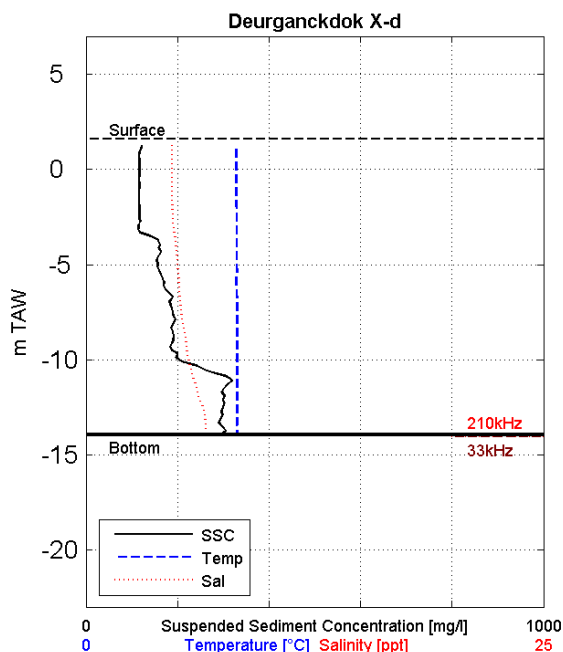


**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:12  
Time after/before HT [MET]: -5:07  
Coordinates [UTM-ED50] Easting: 588713  
Coordinates [UTM-ED50] Northing: 5684643  
Water-Bottom Interface Siltpr. [m TAW]: -13.82  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 0.96

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.68	8.3	4.6	181
-0.01	8.2	4.7	166
-0.50	8.2	4.7	166
-1.17	8.2	4.8	173
-2.07	8.2	4.9	173
-2.85	8.2	4.9	177
-3.70	8.2	4.9	180
-4.66	8.2	5.0	177
-5.55	8.2	5.0	183
-6.35	8.3	5.0	185
-7.17	8.2	5.1	179
-8.14	8.2	5.1	190
-9.10	8.3	5.1	185
-10.02	8.3	5.1	179
-11.04	8.3	5.1	185
-11.94	8.3	5.1	180
-12.68	8.2	5.1	180
-13.40	8.3	5.1	184
-13.67	8.2	5.1	467
-13.70	8.3	5.1	174
-13.71	8.3	5.1	331
-13.73	8.3	5.1	463
-13.82	8.2	5.1	228

Depth Avg    8.2    5.0    181

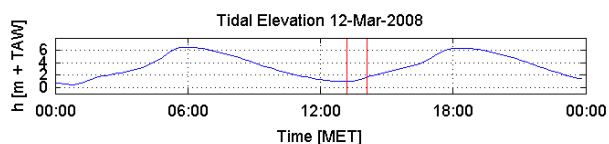


**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:07  
Time after/before HT [MET]: -4:12  
Coordinates [UTM-ED50] Easting: 588699  
Coordinates [UTM-ED50] Northing: 5684609  
Water-Bottom Interface Siltpr. [m TAW]: -13.94  
Waterdepth 210 kHz Echo [m TAW]: -14.05  
Waterdepth 33 kHz Echo [m TAW]: -14.05  
Surface Elevation [m TAW]: 1.60

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.32	8.1	4.7	134
0.98	8.3	4.7	118
0.12	8.2	4.7	117
-0.77	8.2	4.7	117
-1.55	8.2	4.7	117
-2.41	8.2	4.7	115
-3.15	8.2	4.8	114
-3.97	8.2	4.9	158
-4.89	8.2	5.0	152
-5.84	8.2	5.0	168
-6.71	8.2	5.1	191
-7.55	8.2	5.2	191
-8.45	8.3	5.4	197
-9.14	8.2	5.5	187
-10.01	8.2	5.6	194
-10.81	8.3	5.8	292
-11.60	8.2	6.0	298
-12.40	8.2	6.3	282
-13.16	8.3	6.5	294
-13.83	8.2	6.6	150
-13.87	8.2	6.6	136
-13.91	8.2	6.6	287
-13.94	8.3	6.6	468

Depth Avg    8.2    5.3    185



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

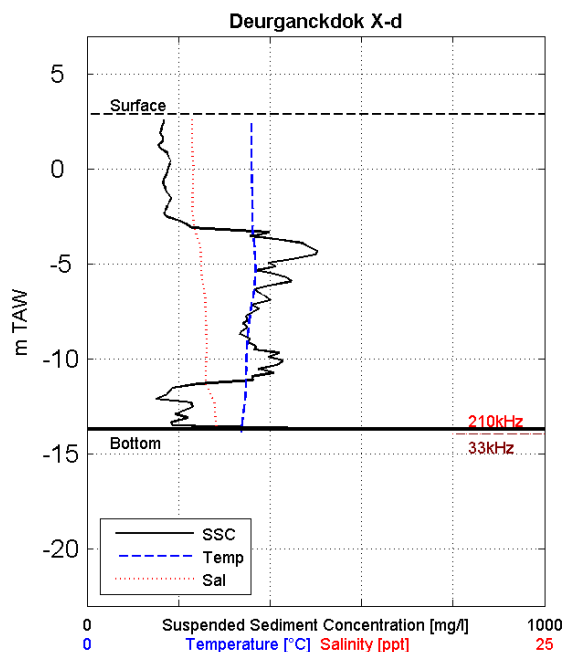
Sourcefile(s):

4094Xd\_ctd.sil

4109Xd\_ctd.sil

Location:

Deurganckdok

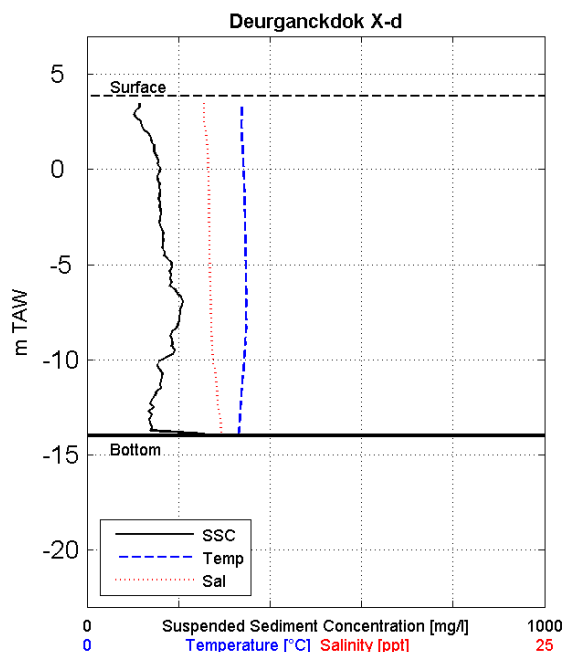


## Siltprofiler

Date & Time [MET]: 12/3/2008 15:30  
 Time after/before HT [MET]: -2:49  
 Coordinates [UTM-ED50] Easting: 588710  
 Coordinates [UTM-ED50] Northing: 5684633  
 Water-Bottom Interface Siltpr. [m TAW]: -13.71  
 Waterdepth 210 kHz Echo [m TAW]: -13.94  
 Waterdepth 33 kHz Echo [m TAW]: -13.94  
 Surface Elevation [m TAW]: 2.89

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.60	9.0	5.7	167
2.08	9.0	5.7	162
1.36	8.9	5.7	157
0.61	8.9	5.8	183
-0.24	9.0	5.8	170
-1.00	9.0	5.8	171
-1.70	9.0	5.8	181
-2.34	9.1	5.8	168
-3.24	9.0	5.9	234
-4.09	9.2	6.2	511
-4.93	9.2	6.2	419
-5.68	9.2	6.3	463
-6.41	9.1	6.4	374
-7.18	9.0	6.5	364
-8.12	8.8	6.5	311
-8.95	8.8	6.5	346
-9.64	8.7	6.5	426
-10.35	8.7	6.5	385
-11.15	8.7	6.5	332
-11.99	8.6	6.8	125
-12.78	8.5	7.0	237
-13.53	8.4	7.0	202
-13.71	8.4	7.1	222

Depth Avg 8.9 6.2 286

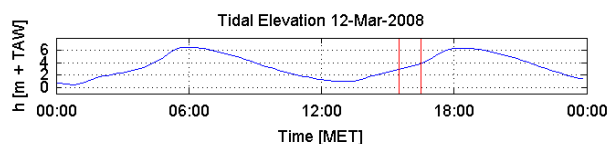


## Siltprofiler

Date & Time [MET]: 12/3/2008 16:29  
 Time after/before HT [MET]: -1:50  
 Coordinates [UTM-ED50] Easting: 588710  
 Coordinates [UTM-ED50] Northing: 5684646  
 Water-Bottom Interface Siltpr. [m TAW]: -14.00  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 3.84

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.55	8.5	6.4	115
2.88	8.4	6.4	101
2.11	8.4	6.5	119
1.36	8.5	6.5	144
0.47	8.5	6.6	160
-0.36	8.6	6.6	152
-1.38	8.6	6.7	155
-2.46	8.7	6.7	160
-3.46	8.6	6.7	166
-4.63	8.7	6.7	170
-5.56	8.7	6.7	186
-6.49	8.7	6.7	194
-7.31	8.7	6.7	200
-8.32	8.7	6.8	195
-9.31	8.6	6.8	182
-10.22	8.6	6.9	154
-11.00	8.5	7.0	163
-11.88	8.5	7.1	149
-12.85	8.3	7.2	144
-13.73	8.3	7.3	139
-13.90	8.3	7.3	433
-13.96	8.3	7.3	442
-14.00	8.3	7.3	170

Depth Avg 8.6 6.7 161



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

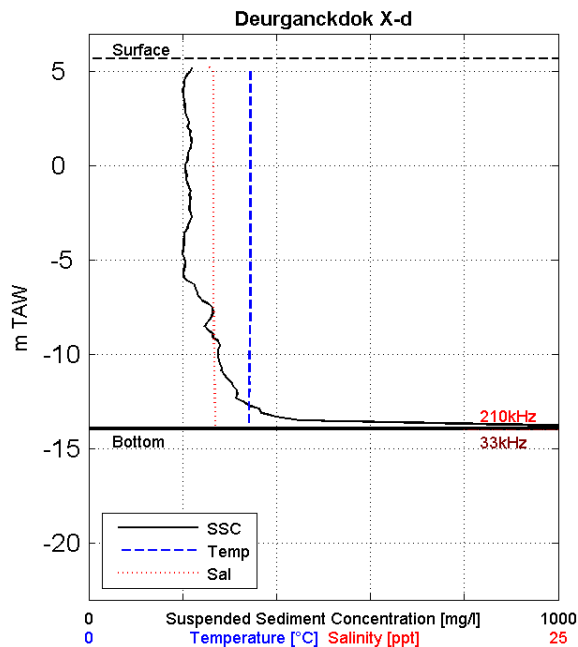
Sourcefile(s):

4124Xd\_ctd.sil

4140Xd\_ctd.sil

Location:

Deurganckdok

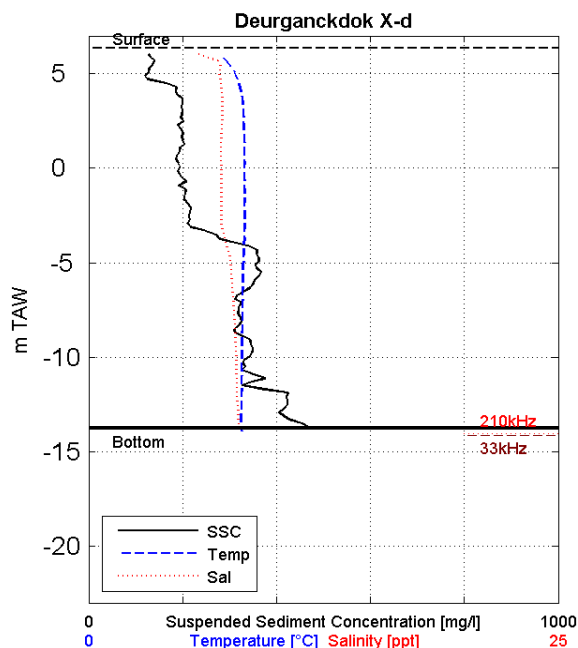


## Siltprofiler

Date & Time [MET]: 12/3/2008 17:26  
Time after/before HT [MET]: -0:53  
Coordinates [UTM-ED50] Easting: 588691  
Coordinates [UTM-ED50] Northing: 5684667  
Water-Bottom Interface Siltpr. [m TAW]: -13.92  
Waterdepth 210 kHz Echo [m TAW]: -13.99  
Waterdepth 33 kHz Echo [m TAW]: -13.98  
Surface Elevation [m TAW]: 5.66

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.20	8.6	6.4	220
4.49	8.6	6.6	201
3.90	8.6	6.6	203
3.02	8.6	6.6	201
1.91	8.6	6.6	215
0.72	8.6	6.6	211
-0.64	8.6	6.6	209
-1.91	8.6	6.6	214
-3.05	8.6	6.6	215
-4.12	8.6	6.6	199
-5.21	8.6	6.6	204
-6.42	8.6	6.6	230
-7.58	8.6	6.6	266
-8.60	8.6	6.7	246
-9.75	8.6	6.7	274
-10.83	8.6	6.7	282
-11.73	8.5	6.7	312
-12.77	8.5	6.7	355
-13.78	8.5	6.7	1096
-13.82	8.5	6.7	2874
-13.84	8.4	6.7	682
-13.91	8.4	6.7	671
-13.92	8.5	6.7	683

Depth Avg 8.6 6.6 248

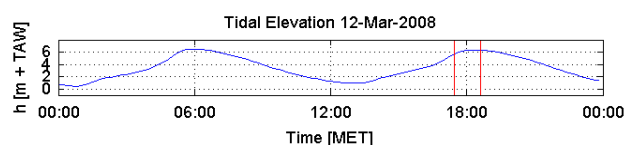


## Siltprofiler

Date & Time [MET]: 12/3/2008 18:36  
Time after/before HT [MET]: 0:16  
Coordinates [UTM-ED50] Easting: 588707  
Coordinates [UTM-ED50] Northing: 5684646  
Water-Bottom Interface Siltpr. [m TAW]: -13.78  
Waterdepth 210 kHz Echo [m TAW]: -14.06  
Waterdepth 33 kHz Echo [m TAW]: -14.14  
Surface Elevation [m TAW]: 6.33

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.05	6.9	5.8	123
5.36	7.6	7.0	132
4.57	8.0	7.0	164
3.76	8.2	7.1	184
3.03	8.2	7.1	193
2.25	8.2	7.1	196
1.50	8.3	7.0	195
0.62	8.3	7.0	187
-0.29	8.3	7.0	194
-1.25	8.3	7.1	214
-2.28	8.3	7.1	216
-3.25	8.3	7.1	248
-4.34	8.3	7.4	358
-5.48	8.2	7.6	367
-6.52	8.2	7.6	323
-7.48	8.2	7.7	320
-8.58	8.2	7.8	314
-9.65	8.1	7.8	344
-10.67	8.1	7.8	324
-11.79	8.1	7.9	394
-12.74	8.1	7.9	417
-13.70	8.1	8.0	482
-13.78	8.1	8.0	485

Depth Avg 8.1 7.4 272



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

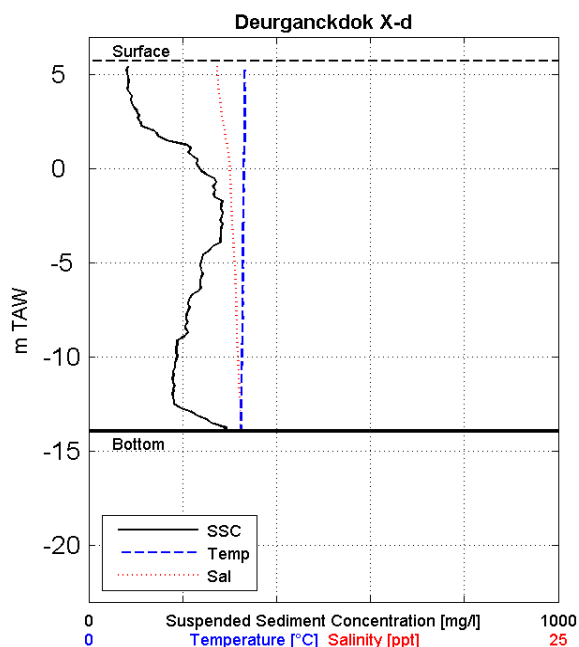
Sourcefile(s):

4155Xd\_ctd.sil

4170Xd\_ctd.sil

Location:

Deurganckdok

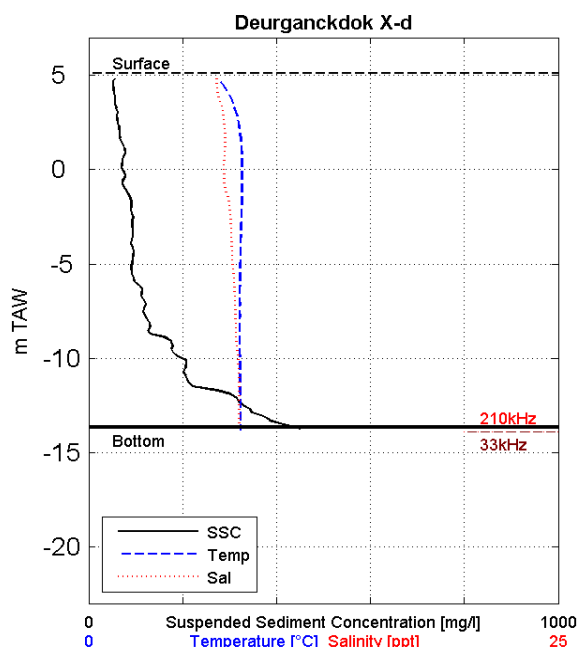


**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:38  
Time after/before HT [MET]: 1:18  
Coordinates [UTM-ED50] Easting: 588693  
Coordinates [UTM-ED50] Northing: 5684636  
Water-Bottom Interface Siltpr. [m TAW]: -13.92  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 5.74

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.45	8.3	6.8	82
4.50	8.3	6.9	83
3.49	8.3	7.0	94
2.33	8.3	7.2	111
1.23	8.3	7.4	218
0.18	8.2	7.5	231
-1.11	8.3	7.5	267
-2.36	8.2	7.6	285
-3.69	8.2	7.7	277
-4.76	8.2	7.7	246
-5.96	8.2	7.8	237
-7.06	8.2	7.8	214
-8.07	8.2	7.9	209
-9.15	8.1	7.9	189
-10.17	8.2	7.9	184
-11.10	8.1	8.0	179
-12.09	8.1	8.0	177
-12.97	8.0	8.1	218
-13.77	8.1	8.0	288
-13.82	8.1	8.0	279
-13.85	8.1	8.0	250
-13.90	8.1	8.0	311
-13.92	8.1	8.0	272

**Depth Avg** 8.2 7.6 201

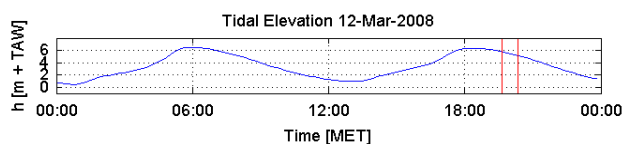


**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:20  
Time after/before HT [MET]: 2:00  
Coordinates [UTM-ED50] Easting: 588700  
Coordinates [UTM-ED50] Northing: 5684651  
Water-Bottom Interface Siltpr. [m TAW]: -13.66  
Waterdepth 210 kHz Echo [m TAW]: -13.89  
Waterdepth 33 kHz Echo [m TAW]: -13.89  
Surface Elevation [m TAW]: 5.12

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.83	6.9	6.8	55
4.08	7.4	6.9	54
3.24	7.8	7.1	59
2.41	8.0	7.2	66
1.68	8.1	7.3	67
0.74	8.2	7.2	77
-0.30	8.1	7.2	75
-1.24	8.1	7.3	80
-2.27	8.1	7.5	92
-3.14	8.1	7.6	96
-4.01	8.1	7.6	90
-4.84	8.1	7.6	94
-5.69	8.0	7.7	95
-6.46	8.1	7.7	117
-7.42	8.0	7.8	115
-8.38	8.0	7.8	129
-9.29	8.0	7.9	179
-10.15	8.1	8.0	205
-11.02	8.0	8.0	207
-11.85	8.0	8.0	302
-12.63	8.1	8.0	336
-13.44	8.1	8.0	393
-13.66	8.1	8.0	459

**Depth Avg** 8.0 7.6 130



Data Processed by:

**IMDC**

In association with:

**GEMS**  
w. | deite hydraulics

I/RA/11283/07.091/MSA

## **F.5 Location Xe**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

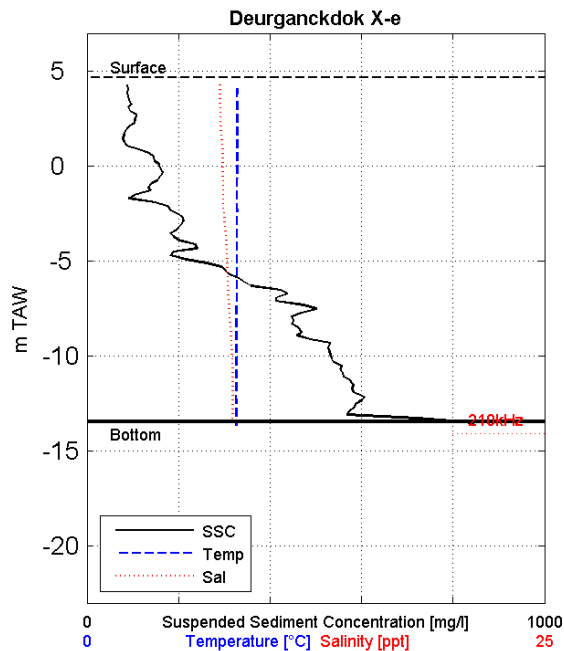
Sourcefile(s):

4005Xe\_ctd.sil

4016Xe\_ctd.sil

Location:

Deurganckdok

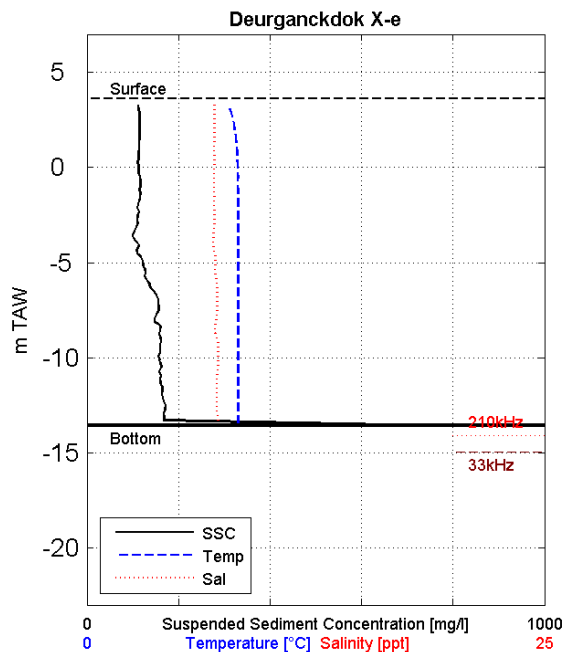


**Siltprofiler**

Date & Time [MET]: 12/3/2008 08:25  
 Time after/before HT [MET]: 2:25  
 Coordinates [UTM-ED50] Easting: 588739  
 Coordinates [UTM-ED50] Northing: 5684733  
 Water-Bottom Interface Siltpr. [m TAW]: -13.44  
 Waterdepth 210 kHz Echo [m TAW]: -14.06  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 4.68

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.38	8.2	7.2	91
3.65	8.2	7.2	85
2.78	8.2	7.3	107
1.95	8.2	7.3	86
1.12	8.2	7.4	82
0.16	8.2	7.4	154
-0.80	8.2	7.4	145
-1.73	8.2	7.4	84
-2.73	8.2	7.5	208
-3.60	8.2	7.6	177
-4.28	8.2	7.6	266
-4.95	8.2	7.6	227
-5.88	8.1	7.7	335
-6.91	8.1	7.7	402
-7.84	8.1	7.8	444
-8.61	8.1	7.8	475
-9.37	8.1	7.9	542
-10.17	8.1	7.9	528
-10.92	8.1	8.0	553
-11.71	8.2	8.0	575
-12.38	8.1	8.0	600
-13.15	8.1	7.9	567
-13.44	8.1	7.9	1106

Depth Avg 8.2 7.6 303

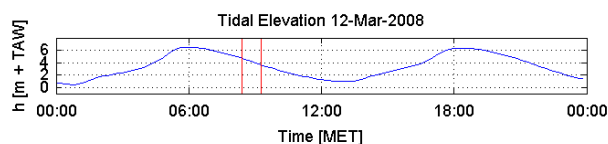


**Siltprofiler**

Date & Time [MET]: 12/3/2008 09:16  
 Time after/before HT [MET]: 3:16  
 Coordinates [UTM-ED50] Easting: 588745  
 Coordinates [UTM-ED50] Northing: 5684721  
 Water-Bottom Interface Siltpr. [m TAW]: -13.55  
 Waterdepth 210 kHz Echo [m TAW]: -14.08  
 Waterdepth 33 kHz Echo [m TAW]: -14.94  
 Surface Elevation [m TAW]: 3.63

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.34	7.7	7.0	112
2.58	8.0	7.0	115
1.79	8.1	7.0	115
1.10	8.2	6.9	112
0.34	8.3	7.0	110
-0.43	8.3	6.9	112
-1.55	8.3	6.9	115
-2.63	8.2	7.0	107
-3.60	8.3	6.9	98
-4.29	8.3	6.9	107
-4.87	8.2	7.0	122
-5.47	8.3	7.0	125
-6.25	8.2	7.1	137
-7.14	8.3	7.1	154
-7.93	8.3	7.1	146
-8.57	8.2	7.0	158
-9.18	8.2	7.1	160
-10.06	8.3	7.2	158
-11.00	8.2	7.1	158
-12.06	8.2	7.1	161
-12.79	8.2	7.1	170
-13.45	8.2	7.2	166
-13.55	8.3	7.1	1545

Depth Avg 8.2 7.0 136



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

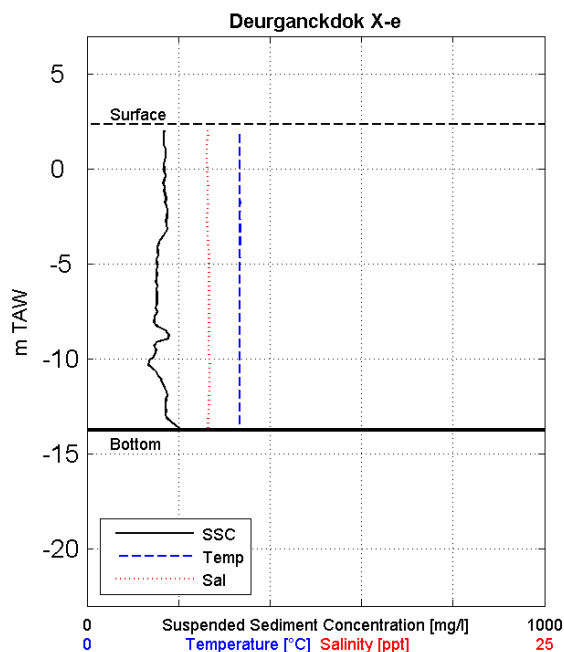
Sourcefile(s):

4031Xe\_ctd.sil

4047Xe\_ctd.sil

Location:

Deurganckdok

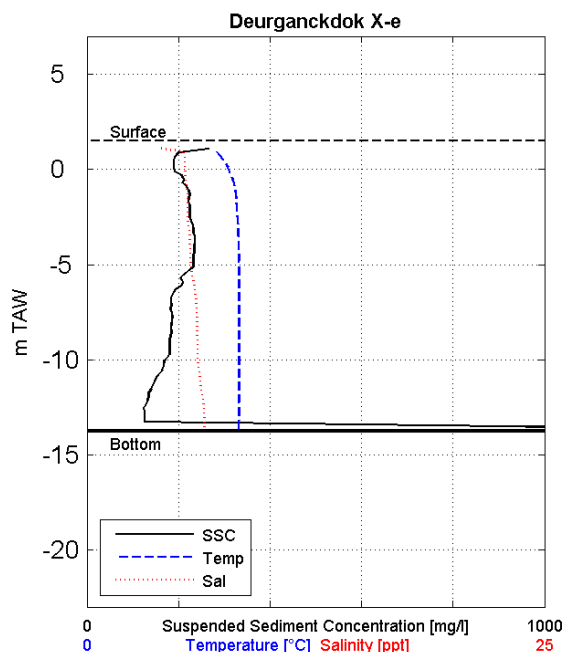


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:28  
 Time after/before HT [MET]: 4:28  
 Coordinates [UTM-ED50] Easting: 588737  
 Coordinates [UTM-ED50] Northing: 5684699  
 Water-Bottom Interface Siltpr. [m TAW]: -13.76  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 2.38

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.09	8.3	6.6	168
1.48	8.3	6.5	169
0.66	8.3	6.5	171
-0.11	8.3	6.5	171
-0.99	8.3	6.6	170
-1.82	8.3	6.6	170
-2.59	8.3	6.5	175
-3.29	8.3	6.6	176
-4.02	8.3	6.6	156
-4.81	8.4	6.7	152
-5.68	8.3	6.6	149
-6.58	8.3	6.7	147
-7.34	8.3	6.7	152
-8.11	8.3	6.7	144
-8.91	8.3	6.6	180
-9.64	8.3	6.6	147
-10.44	8.3	6.7	141
-11.38	8.3	6.7	171
-12.30	8.3	6.6	174
-13.07	8.3	6.6	170
-13.64	8.3	6.6	226
-13.71	8.3	6.6	170
-13.76	8.3	6.6	220

Depth Avg    8.3    6.6    163

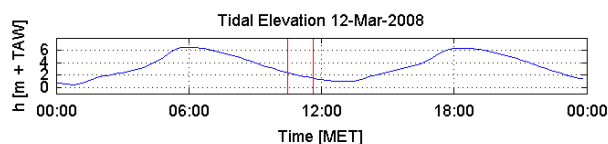


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:37  
 Time after/before HT [MET]: 5:37  
 Coordinates [UTM-ED50] Easting: 588720  
 Coordinates [UTM-ED50] Northing: 5684717  
 Water-Bottom Interface Siltpr. [m TAW]: -13.75  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 1.48

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.20	6.8	3.2	202
0.53	7.4	5.3	191
-0.06	7.8	5.3	190
-0.62	8.0	5.4	208
-1.37	8.1	5.5	223
-2.20	8.2	5.5	223
-2.97	8.2	5.5	234
-3.63	8.3	5.6	233
-4.27	8.3	5.6	232
-4.92	8.3	5.7	235
-5.60	8.3	5.8	204
-6.37	8.3	5.9	190
-7.26	8.3	6.0	182
-8.13	8.4	6.0	183
-8.88	8.3	6.0	181
-9.59	8.3	6.0	180
-10.25	8.3	6.1	173
-10.97	8.3	6.2	152
-11.76	8.3	6.3	132
-12.61	8.3	6.4	127
-13.44	8.3	6.4	131
-13.67	8.3	6.4	4012
-13.75	8.3	6.4	1131

Depth Avg    8.1    5.8    217



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

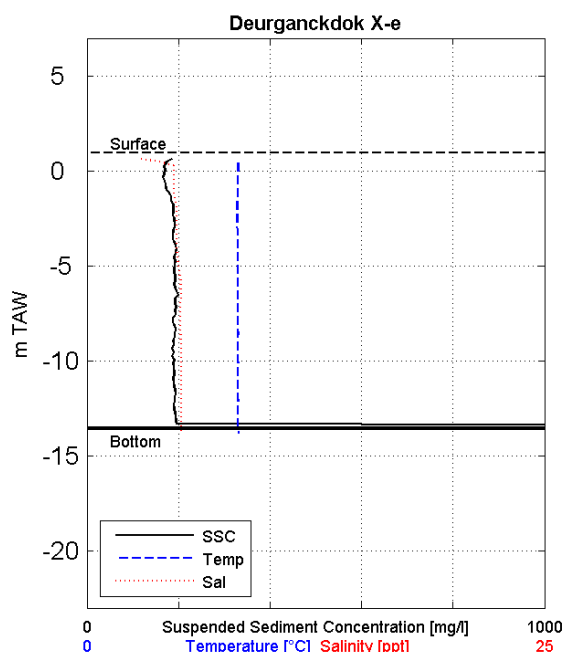
Sourcefile(s):

4062Xe\_ctd.sil

4077Xe\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:10

Time after/before HT [MET]: -5:09

Coordinates [UTM-ED50] Easting: 588741

Coordinates [UTM-ED50] Northing: 5684706

Water-Bottom Interface Siltpr. [m TAW]: -13.54

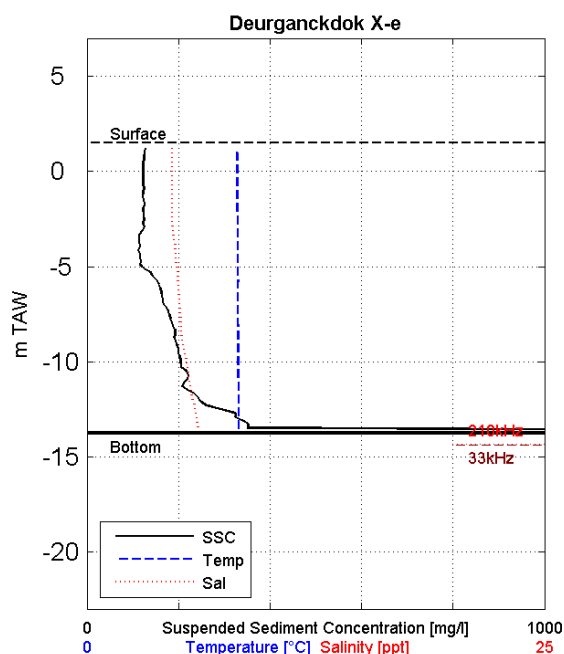
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 0.95

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.66	8.3	2.8	177
0.05	8.2	4.7	171
-0.59	8.2	4.7	167
-1.22	8.2	4.8	185
-1.82	8.2	4.9	192
-2.65	8.2	4.9	189
-3.24	8.2	4.9	188
-3.79	8.2	4.9	191
-4.40	8.2	4.9	192
-5.18	8.2	5.0	191
-6.01	8.2	5.1	188
-6.61	8.2	5.1	198
-7.17	8.2	5.0	197
-7.86	8.2	5.1	186
-8.63	8.2	5.1	191
-9.39	8.3	5.1	188
-10.13	8.3	5.2	190
-10.89	8.2	5.1	186
-11.59	8.2	5.1	193
-12.25	8.2	5.1	188
-12.85	8.2	5.1	193
-13.48	8.2	5.1	196
-13.54	8.2	5.1	286

Depth Avg 8.2 4.9 211



**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:02

Time after/before HT [MET]: -4:17

Coordinates [UTM-ED50] Easting: 588750

Coordinates [UTM-ED50] Northing: 5684698

Water-Bottom Interface Siltpr. [m TAW]: -13.76

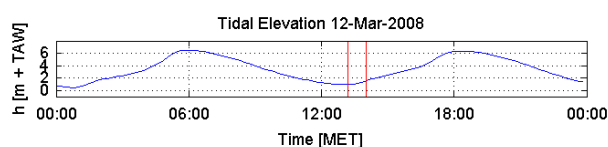
Waterdepth 210 kHz Echo [m TAW]: -14.33

Waterdepth 33 kHz Echo [m TAW]: -14.36

Surface Elevation [m TAW]: 1.51

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.22	8.1	4.6	127
1.17	8.2	4.6	134
1.13	8.2	4.6	123
1.08	8.2	4.6	122
0.26	8.2	4.6	121
-0.33	8.2	4.6	120
-1.19	8.2	4.6	123
-2.07	8.2	4.6	122
-2.87	8.2	4.7	127
-3.65	8.2	4.8	114
-4.42	8.2	4.8	116
-5.18	8.2	4.9	132
-6.08	8.2	5.0	163
-6.91	8.2	5.0	161
-7.60	8.2	5.1	176
-8.44	8.3	5.1	191
-9.35	8.3	5.3	197
-10.34	8.2	5.5	204
-11.24	8.3	5.6	203
-12.08	8.2	5.8	247
-12.94	8.3	6.0	326
-13.74	8.2	6.1	8348
-13.76	8.3	6.1	7115

Depth Avg 8.2 5.1 193



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

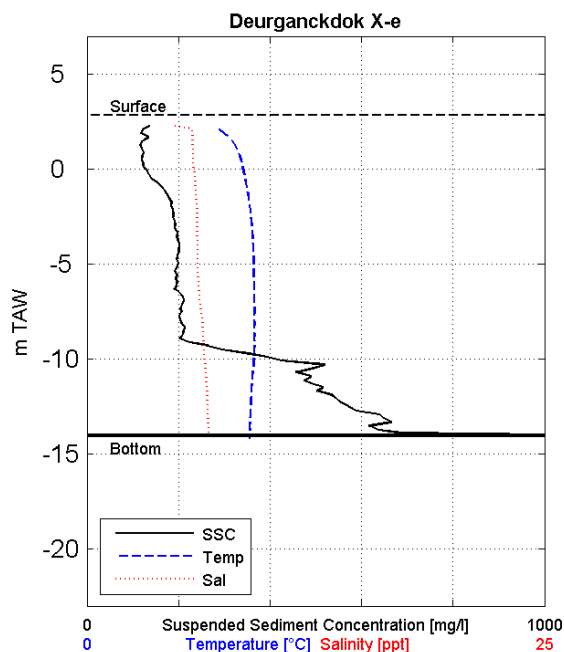
Sourcefile(s):

4093Xe\_ctd.sil

4108Xe\_ctd.sil

Location:

Deurganckdok

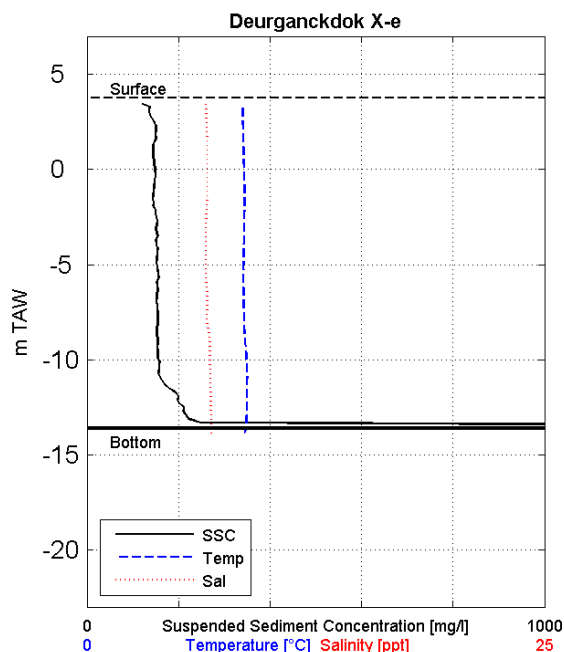


## Siltprofiler

Date & Time [MET]: 12/3/2008 15:27  
Time after/before HT [MET]: -2:52  
Coordinates [UTM-ED50] Easting: 588773  
Coordinates [UTM-ED50] Northing: 5684731  
Water-Bottom Interface Siltpr. [m TAW]: -14.02  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 2.84

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.35	7.0	4.3	156
1.76	7.7	5.7	136
1.22	8.1	5.8	118
0.60	8.3	5.8	118
-0.02	8.5	5.8	128
-0.70	8.7	5.9	159
-1.50	8.8	6.0	178
-2.25	8.9	6.0	190
-2.88	9.0	6.0	191
-3.57	9.1	6.0	193
-4.39	9.1	6.0	204
-5.12	9.2	6.0	196
-5.98	9.1	6.1	201
-6.85	9.1	6.1	209
-7.64	9.1	6.3	202
-8.36	9.1	6.3	211
-9.17	9.1	6.3	244
-10.11	9.1	6.4	440
-10.98	9.0	6.5	498
-11.93	8.9	6.5	580
-12.89	8.9	6.6	632
-13.80	8.9	6.6	621
-14.02	8.8	6.7	4580

Depth Avg 8.8 6.1 277

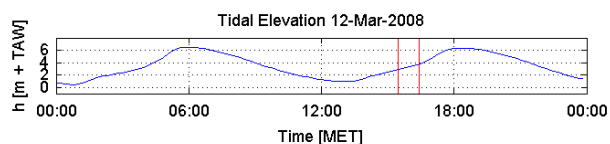


## Siltprofiler

Date & Time [MET]: 12/3/2008 16:25  
Time after/before HT [MET]: -1:54  
Coordinates [UTM-ED50] Easting: 588738  
Coordinates [UTM-ED50] Northing: 5684712  
Water-Bottom Interface Siltpr. [m TAW]: -13.63  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 3.76

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.48	8.4	6.5	61
3.27	8.5	6.5	137
2.57	8.5	6.5	144
2.01	8.5	6.5	151
1.22	8.5	6.5	144
0.17	8.6	6.6	147
-0.87	8.6	6.6	148
-1.90	8.6	6.5	143
-2.81	8.6	6.5	151
-3.63	8.5	6.5	150
-4.46	8.6	6.5	153
-5.40	8.5	6.5	153
-6.24	8.6	6.5	152
-7.08	8.6	6.6	151
-7.91	8.5	6.5	160
-8.69	8.6	6.7	152
-9.45	8.7	6.7	152
-10.28	8.7	6.7	156
-11.08	8.7	6.7	162
-11.89	8.7	6.7	199
-12.68	8.7	6.8	208
-13.45	8.7	6.8	274
-13.63	8.7	6.8	37418

Depth Avg 8.6 6.6 223



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

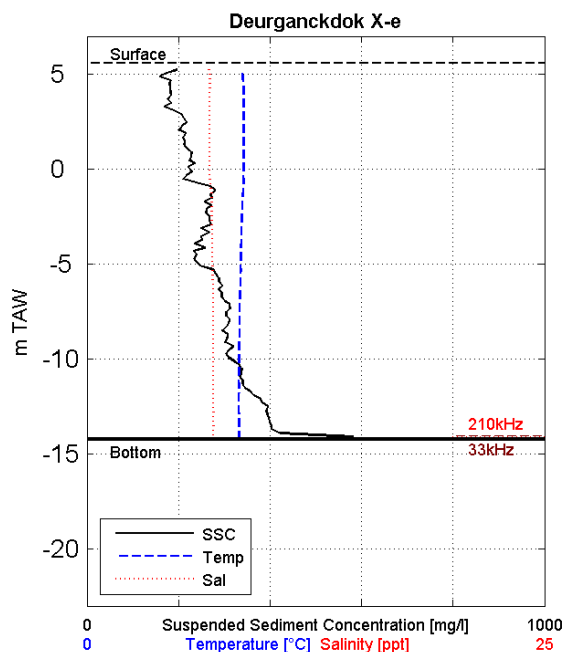
Sourcefile(s):

4123Xe\_ctd.sil

4139Xe\_ctd.sil

Location:

Deurganckdok

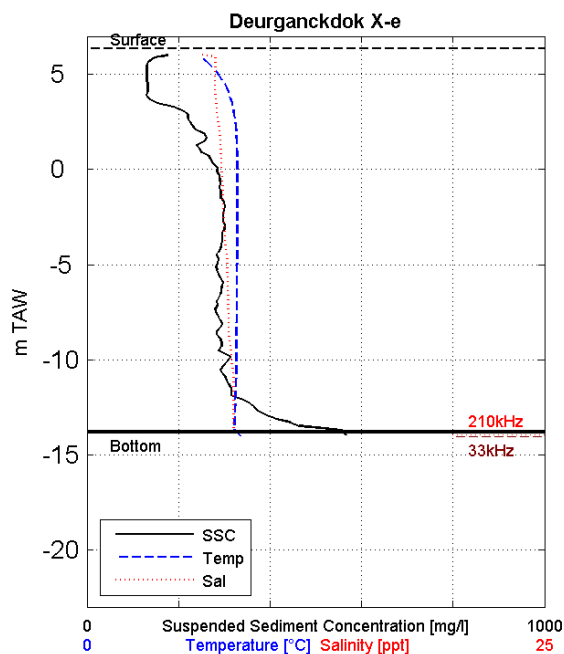


## Siltprofiler

Date & Time [MET]: 12/3/2008 17:23  
 Time after/before HT [MET]: -0:56  
 Coordinates [UTM-ED50] Easting: 588749  
 Coordinates [UTM-ED50] Northing: 5684688  
 Water-Bottom Interface Siltpr. [m TAW]: -14.21  
 Waterdepth 210 kHz Echo [m TAW]: -14.10  
 Waterdepth 33 kHz Echo [m TAW]: -14.04  
 Surface Elevation [m TAW]: 5.57

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.29	8.4	6.5	201
4.50	8.5	6.7	186
3.65	8.6	6.7	163
2.80	8.6	6.7	215
2.00	8.5	6.7	187
1.14	8.6	6.7	221
0.25	8.5	6.7	254
-0.79	8.6	6.7	247
-1.87	8.5	6.8	265
-3.12	8.4	6.8	252
-4.16	8.4	6.8	270
-5.21	8.3	6.8	226
-6.21	8.4	6.9	299
-7.23	8.3	6.9	302
-8.23	8.3	6.9	309
-9.17	8.2	6.9	303
-10.14	8.3	6.9	318
-11.21	8.4	6.9	326
-12.27	8.3	6.9	382
-13.40	8.3	6.9	401
-14.08	8.3	6.9	487
-14.14	8.3	6.9	629
-14.21	8.3	6.9	582

Depth Avg 8.4 6.8 276

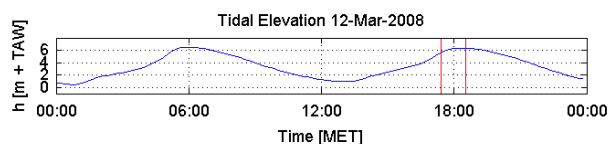


## Siltprofiler

Date & Time [MET]: 12/3/2008 18:31  
 Time after/before HT [MET]: 0:11  
 Coordinates [UTM-ED50] Easting: 588750  
 Coordinates [UTM-ED50] Northing: 5684718  
 Water-Bottom Interface Siltpr. [m TAW]: -13.82  
 Waterdepth 210 kHz Echo [m TAW]: -13.94  
 Waterdepth 33 kHz Echo [m TAW]: -14.05  
 Surface Elevation [m TAW]: 6.35

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.04	6.2	6.1	188
5.11	7.1	7.0	129
4.09	7.7	7.0	131
3.10	8.0	7.1	218
2.17	8.1	7.2	235
1.17	8.1	7.3	245
0.20	8.2	7.3	283
-0.82	8.2	7.4	285
-1.76	8.2	7.4	301
-2.76	8.1	7.5	298
-3.78	8.2	7.5	295
-4.70	8.2	7.7	289
-5.71	8.2	7.7	297
-6.81	8.1	7.7	276
-7.61	8.2	7.7	285
-8.48	8.2	7.7	288
-9.46	8.2	7.8	289
-10.38	8.1	7.9	299
-11.30	8.1	8.0	313
-12.09	8.1	8.0	336
-12.81	8.1	8.0	391
-13.68	8.0	8.0	492
-13.82	8.1	8.0	1346

Depth Avg 8.0 7.5 274



Data Processed by:



In association with:



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

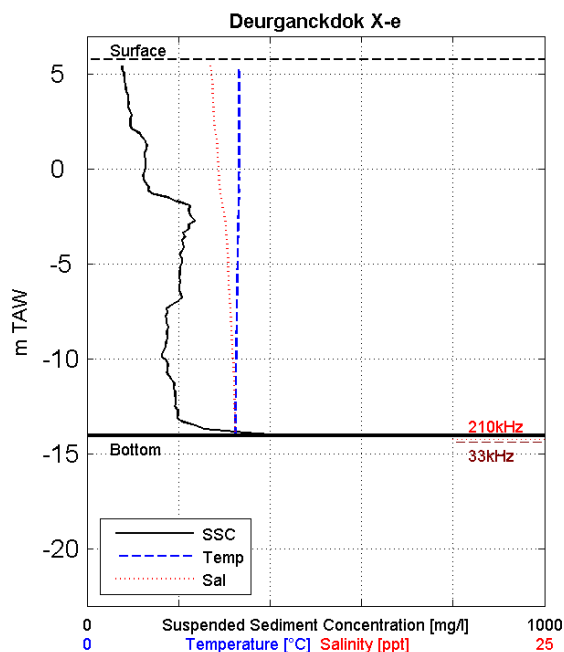
Sourcefile(s):

4154Xe\_ctd.sil

4169Xe\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:36

Time after/before HT [MET]: 1:16

Coordinates [UTM-ED50] Easting: 588755

Coordinates [UTM-ED50] Northing: 5684729

Water-Bottom Interface Siltpr. [m TAW]: -14.05

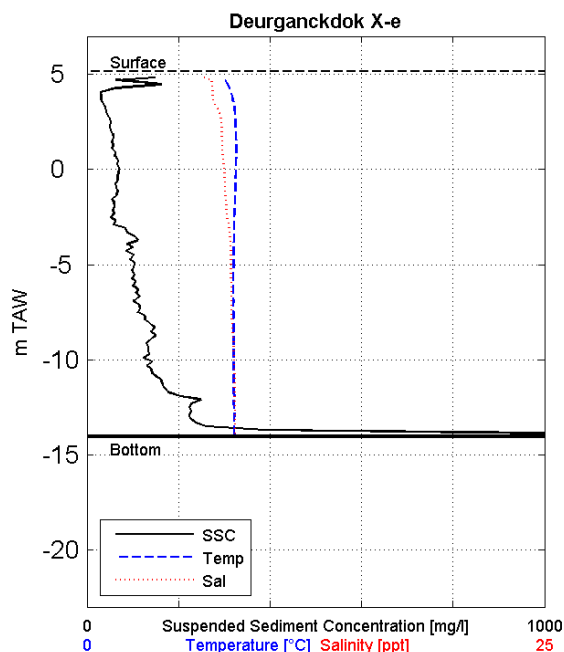
Waterdepth 210 kHz Echo [m TAW]: -14.25

Waterdepth 33 kHz Echo [m TAW]: -14.39

Surface Elevation [m TAW]: 5.77

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.49	8.2	6.7	77
5.39	8.3	6.8	80
5.28	8.2	6.8	68
4.69	8.3	6.8	83
3.89	8.3	6.9	91
2.82	8.3	6.9	97
1.70	8.3	7.1	117
0.42	8.3	7.2	130
-0.73	8.2	7.2	129
-2.08	8.3	7.4	217
-3.12	8.3	7.6	223
-4.19	8.2	7.7	210
-5.21	8.2	7.7	203
-6.34	8.2	7.7	203
-7.34	8.2	7.8	171
-8.57	8.1	7.9	173
-9.67	8.2	7.9	159
-10.80	8.1	8.0	177
-12.11	8.1	8.1	196
-13.16	8.1	8.1	197
-13.91	8.1	8.1	240
-14.00	8.1	8.1	359
-14.05	8.1	8.1	989

Depth Avg 8.2 7.5 165



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:17

Time after/before HT [MET]: 1:57

Coordinates [UTM-ED50] Easting: 588750

Coordinates [UTM-ED50] Northing: 5684719

Water-Bottom Interface Siltpr. [m TAW]: -14.03

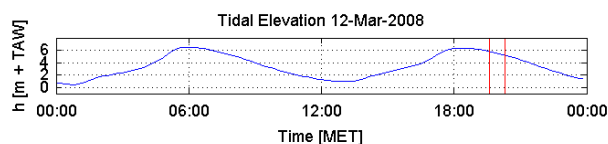
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 5.15

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.86	7.3	6.3	229
4.14	7.8	6.8	28
3.16	8.0	7.1	42
1.97	8.2	7.3	60
0.76	8.2	7.4	69
-0.47	8.1	7.5	85
-1.82	8.1	7.6	58
-3.23	8.0	7.8	77
-4.47	8.0	7.8	122
-5.66	8.0	7.8	139
-7.13	8.0	7.9	112
-8.62	8.0	8.0	139
-9.93	8.1	8.0	98
-11.37	8.0	8.1	166
-12.57	8.0	8.1	224
-13.83	8.0	8.1	464
-13.86	8.0	8.1	1964
-13.88	8.0	8.1	458
-13.89	8.1	8.1	522
-13.91	8.0	8.1	770
-13.93	8.0	8.1	480
-13.95	8.0	8.1	469
-14.03	8.1	8.1	411

Depth Avg 8.0 7.7 119



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.6 Location Ya**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

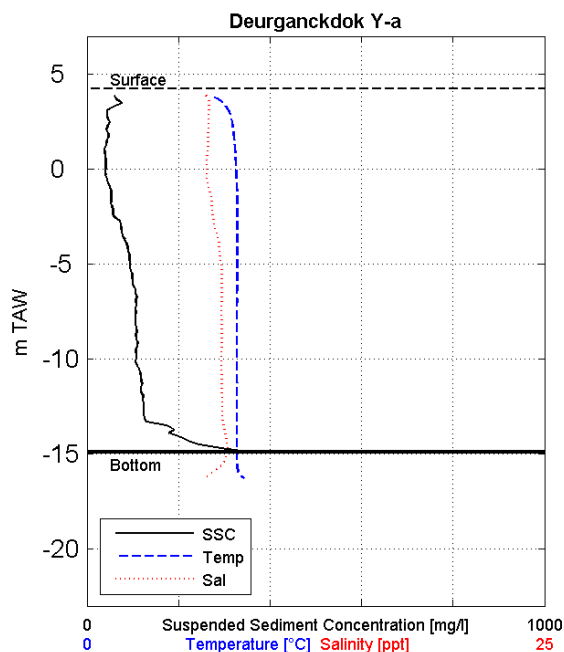
Sourcefile(s):

4010Ya\_ctd.sil

4025Ya\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 08:47

Time after/before HT [MET]: 2:47

Coordinates [UTM-ED50] Easting: 588595

Coordinates [UTM-ED50] Northing: 5684280

Water-Bottom Interface Siltpr. [m TAW]: -14.89

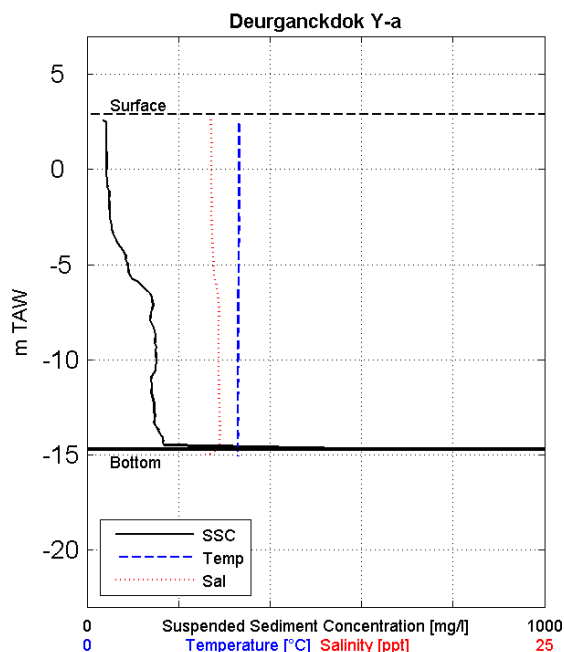
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 4.22

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.93	6.5	5.9	75
3.59	7.3	6.6	82
3.04	7.8	6.6	42
1.97	8.0	6.6	45
0.75	8.1	6.5	39
-0.33	8.1	6.5	42
-1.16	8.2	6.7	51
-2.12	8.2	6.8	54
-3.03	8.2	7.0	72
-3.93	8.2	7.2	88
-5.00	8.2	7.3	90
-6.08	8.2	7.4	100
-7.13	8.2	7.3	107
-8.13	8.1	7.3	106
-8.92	8.2	7.4	109
-9.71	8.2	7.3	117
-10.61	8.1	7.3	117
-11.50	8.2	7.4	113
-12.41	8.2	7.3	126
-13.13	8.2	7.4	125
-13.80	8.2	7.5	179
-14.59	8.1	7.7	247
-14.89	8.1	7.6	301

Depth Avg 8.1 7.1 93



**Siltprofiler**

Date & Time [MET]: 12/3/2008 09:56

Time after/before HT [MET]: 3:56

Coordinates [UTM-ED50] Easting: 588606

Coordinates [UTM-ED50] Northing: 5684290

Water-Bottom Interface Siltpr. [m TAW]: -14.71

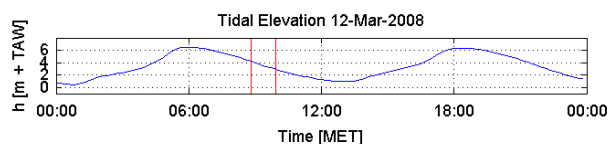
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 2.88

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.60	8.2	6.8	16
1.83	8.3	6.8	40
0.80	8.3	6.8	44
-0.05	8.3	6.7	41
-1.02	8.3	6.8	48
-1.83	8.3	6.8	51
-2.71	8.3	6.8	52
-3.47	8.3	6.8	57
-4.24	8.3	6.9	81
-5.08	8.3	6.9	89
-5.97	8.2	7.0	114
-6.83	8.2	7.2	142
-7.70	8.3	7.2	134
-8.59	8.2	7.2	152
-9.40	8.3	7.2	149
-10.18	8.2	7.2	149
-10.88	8.2	7.2	142
-11.52	8.2	7.2	139
-12.19	8.3	7.2	144
-12.87	8.2	7.2	149
-13.69	8.2	7.3	156
-14.51	8.3	7.2	168
-14.71	8.3	7.2	259

Depth Avg 8.3 7.0 102



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

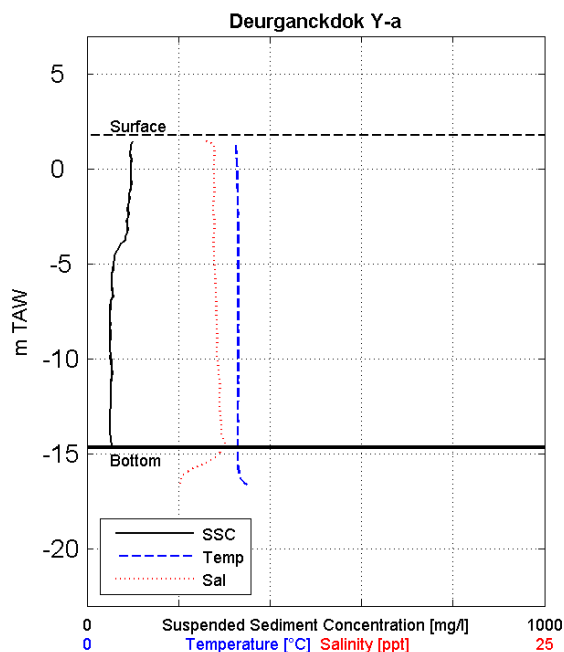
Sourcefile(s):

4040Ya\_ctd.sil

4056Ya\_ctd.sil

Location:

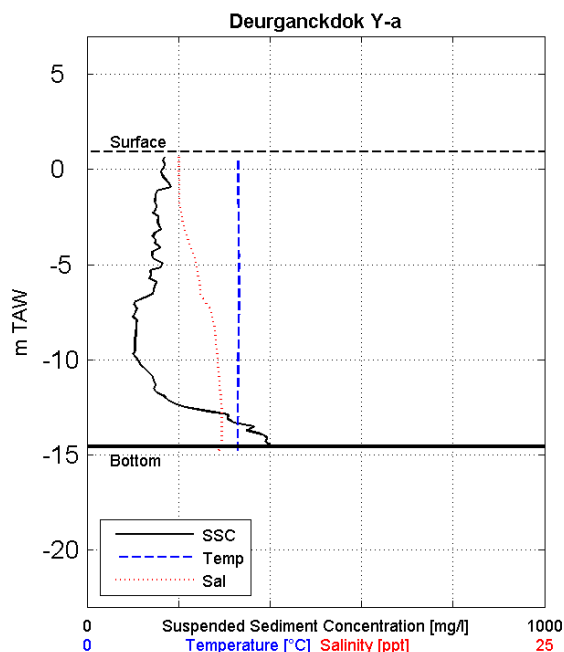
Deurganckdok



## Siltprofiler

Date & Time [MET]: 12/3/2008 11:09  
 Time after/before HT [MET]: 5:09  
 Coordinates [UTM-ED50] Easting: 588590  
 Coordinates [UTM-ED50] Northing: 5684286  
 Water-Bottom Interface Siltpr. [m TAW]: -14.64  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 1.78

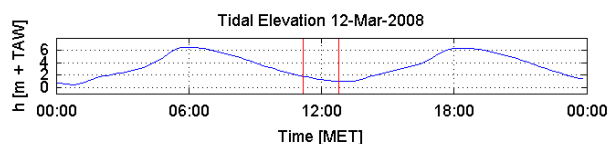
Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.49	8.0	6.2	101
0.82	8.1	6.9	95
-0.01	8.2	6.9	97
-0.79	8.2	6.9	95
-1.60	8.3	6.9	91
-2.44	8.3	6.9	88
-3.26	8.2	6.9	86
-4.08	8.3	6.9	68
-4.82	8.3	7.0	58
-5.49	8.2	7.0	53
-6.36	8.3	7.0	52
-7.15	8.3	7.0	50
-8.05	8.3	7.0	54
-8.80	8.3	7.1	51
-9.57	8.2	7.1	51
-10.35	8.2	7.1	52
-11.09	8.2	7.2	53
-11.93	8.3	7.2	51
-12.69	8.3	7.3	50
-13.38	8.3	7.3	49
-14.01	8.2	7.4	50
-14.64	8.2	7.5	59
Depth Avg	8.2	7.0	66



## Siltprofiler

Date & Time [MET]: 12/3/2008 12:47  
 Time after/before HT [MET]: 6:47  
 Coordinates [UTM-ED50] Easting: 588637  
 Coordinates [UTM-ED50] Northing: 5684301  
 Water-Bottom Interface Siltpr. [m TAW]: -14.59  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 0.94

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.66	8.3	5.0	168
0.22	8.3	5.0	166
-0.49	8.3	5.0	166
-1.32	8.3	5.0	153
-2.23	8.2	5.1	151
-3.10	8.2	5.3	175
-3.82	8.3	5.6	146
-4.41	8.3	5.8	166
-5.07	8.3	6.0	165
-5.73	8.3	6.1	112
-6.51	8.3	6.2	161
-7.24	8.2	6.7	117
-8.01	8.3	6.9	108
-8.67	8.2	7.0	115
-9.43	8.3	7.1	117
-10.11	8.2	7.1	101
-10.94	8.2	7.2	147
-11.71	8.2	7.3	139
-12.50	8.2	7.3	228
-13.33	8.2	7.4	312
-13.99	8.3	7.3	384
-14.52	8.2	7.3	407
-14.59	8.2	7.3	447
Depth Avg	8.3	6.3	167



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

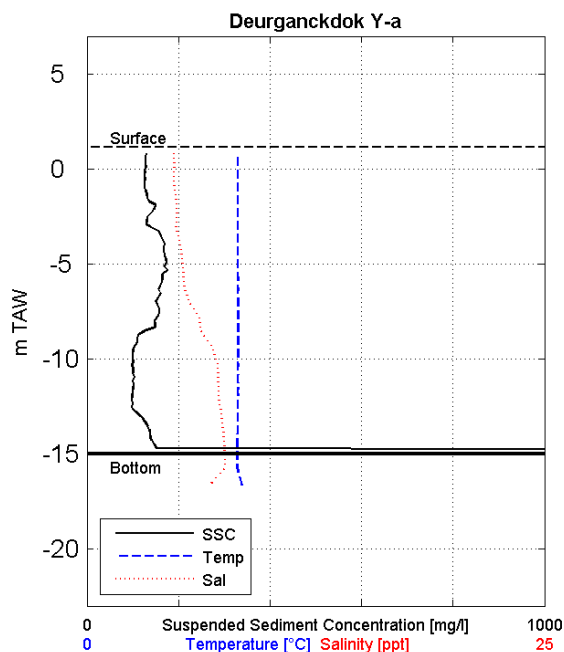
Sourcefile(s):

4071Ya\_ctd.sil

4086Ya\_ctd.sil

Location:

Deurganckdok

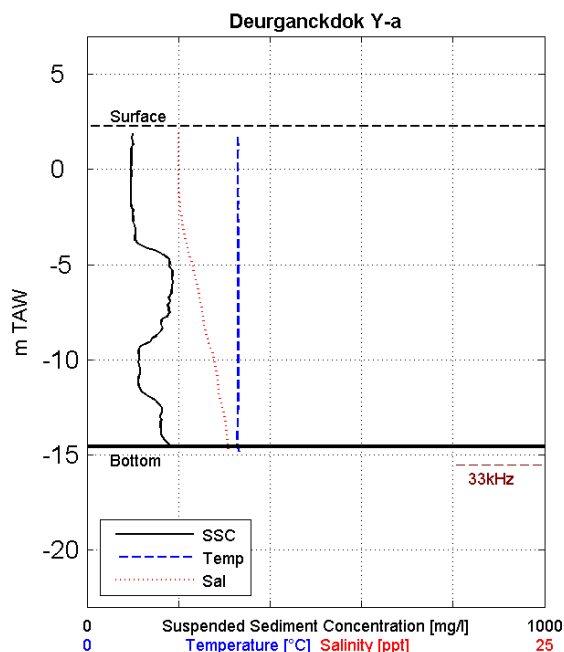


## Siltprofiler

Date & Time [MET]: 12/3/2008 13:38  
 Time after/before HT [MET]: -4:41  
 Coordinates [UTM-ED50] Easting: 588623  
 Coordinates [UTM-ED50] Northing: 5684261  
 Water-Bottom Interface Siltpr. [m TAW]: -15.01  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 1.14

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.86	8.2	4.7	131
0.39	8.2	4.7	127
-0.39	8.2	4.7	126
-1.18	8.2	4.8	131
-1.95	8.2	4.9	152
-2.77	8.2	4.9	129
-3.48	8.2	5.0	166
-4.14	8.2	5.1	169
-4.91	8.2	5.2	177
-5.66	8.2	5.3	166
-6.54	8.2	5.4	160
-7.23	8.2	5.7	159
-7.90	8.2	6.1	147
-8.66	8.3	6.3	113
-9.53	8.2	6.9	103
-10.36	8.2	7.1	98
-11.16	8.2	7.2	98
-11.96	8.3	7.2	98
-12.55	8.2	7.3	98
-13.22	8.2	7.4	124
-13.98	8.2	7.5	135
-14.73	8.2	7.5	152
-15.01	8.2	7.5	82

Depth Avg    8.2    6.0    169

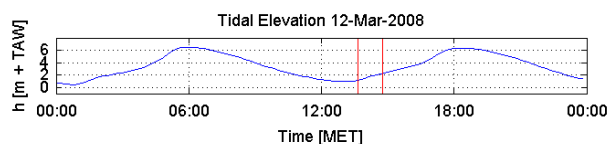


## Siltprofiler

Date & Time [MET]: 12/3/2008 14:45  
 Time after/before HT [MET]: -3:34  
 Coordinates [UTM-ED50] Easting: 588631  
 Coordinates [UTM-ED50] Northing: 5684297  
 Water-Bottom Interface Siltpr. [m TAW]: -14.58  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: -15.54  
 Surface Elevation [m TAW]: 2.29

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.99	8.2	5.0	100
1.64	8.2	5.0	98
1.20	8.3	5.0	99
0.80	8.3	5.0	97
0.24	8.3	5.0	94
-0.41	8.2	5.0	94
-1.10	8.2	5.0	97
-1.83	8.3	5.1	100
-2.60	8.2	5.2	100
-3.32	8.2	5.3	101
-4.08	8.2	5.5	123
-4.78	8.3	5.7	184
-5.61	8.3	5.9	181
-6.69	8.2	6.1	179
-7.81	8.3	6.3	170
-8.58	8.2	6.5	162
-9.57	8.3	6.8	115
-10.69	8.2	7.1	117
-11.55	8.2	7.2	118
-12.58	8.3	7.4	166
-13.51	8.2	7.6	163
-14.44	8.2	7.7	177
-14.58	8.2	7.7	186

Depth Avg    8.2    6.1    133



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

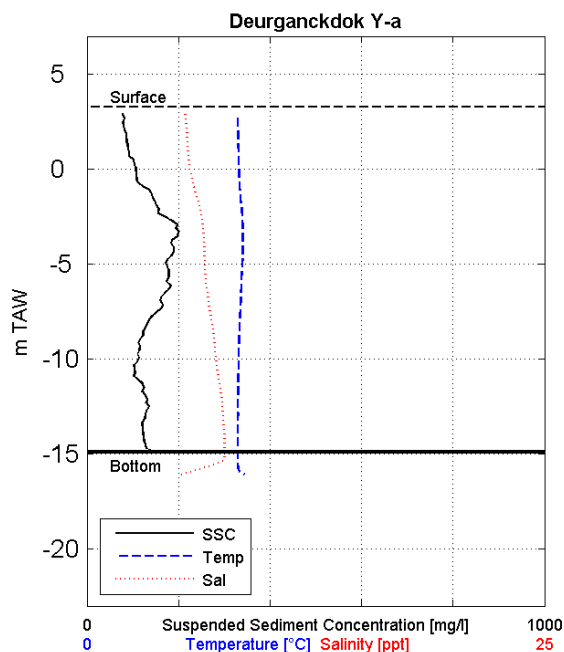
Sourcefile(s):

4102Ya\_ctd.sil

4117Ya\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 15:58

Time after/before HT [MET]: -2:21

Coordinates [UTM-ED50] Easting: 588600

Coordinates [UTM-ED50] Northing: 5684294

Water-Bottom Interface Siltpr. [m TAW]: -14.91

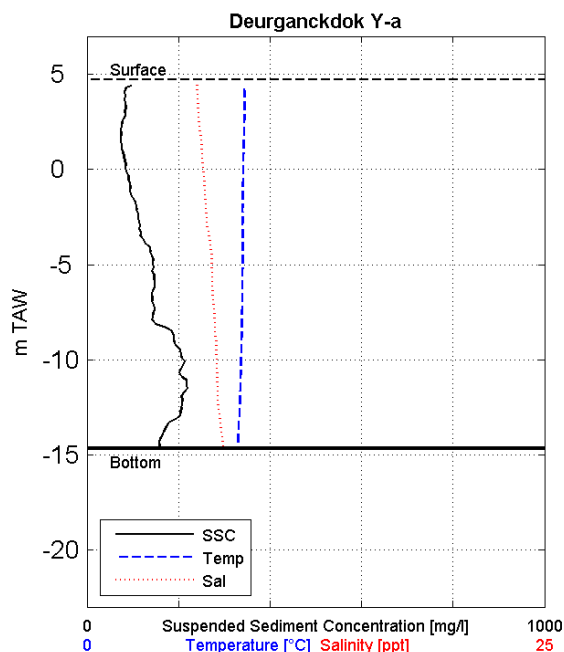
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 3.28

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.99	8.2	5.3	76
2.43	8.2	5.4	72
1.74	8.2	5.5	86
0.89	8.3	5.5	94
0.03	8.3	5.6	106
-0.83	8.3	5.8	118
-1.67	8.4	6.1	154
-2.42	8.5	6.2	157
-3.24	8.5	6.3	207
-4.26	8.5	6.4	196
-5.20	8.4	6.4	180
-5.99	8.4	6.5	170
-6.79	8.4	6.6	161
-7.66	8.3	6.7	144
-8.64	8.3	6.9	123
-9.52	8.3	7.0	112
-10.40	8.2	7.1	105
-11.23	8.3	7.2	121
-12.01	8.2	7.3	131
-12.83	8.2	7.4	131
-13.88	8.2	7.5	123
-14.81	8.2	7.5	136
-14.91	8.3	7.5	132

Depth Avg 8.3 6.5 133



**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:00

Time after/before HT [MET]: -1:19

Coordinates [UTM-ED50] Easting: 588621

Coordinates [UTM-ED50] Northing: 5684303

Water-Bottom Interface Siltpr. [m TAW]: -14.69

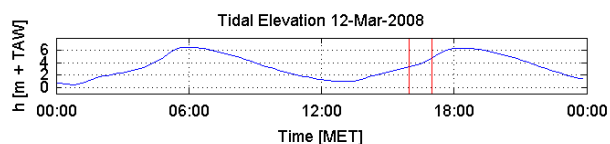
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 4.73

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.45	8.6	6.0	98
3.79	8.6	6.0	82
3.18	8.6	6.0	85
2.39	8.5	6.1	80
1.34	8.6	6.2	75
0.35	8.6	6.3	83
-0.58	8.5	6.4	94
-1.46	8.5	6.4	98
-2.71	8.5	6.5	116
-3.76	8.5	6.7	122
-4.67	8.5	6.8	139
-5.68	8.5	6.8	149
-6.73	8.5	6.9	141
-7.82	8.5	6.9	137
-8.76	8.4	7.0	190
-9.65	8.4	7.1	201
-10.58	8.4	7.1	205
-11.43	8.3	7.1	219
-12.22	8.4	7.1	208
-12.98	8.3	7.2	197
-13.78	8.3	7.3	172
-14.49	8.3	7.4	161
-14.69	8.3	7.5	156

Depth Avg 8.5 6.7 137



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

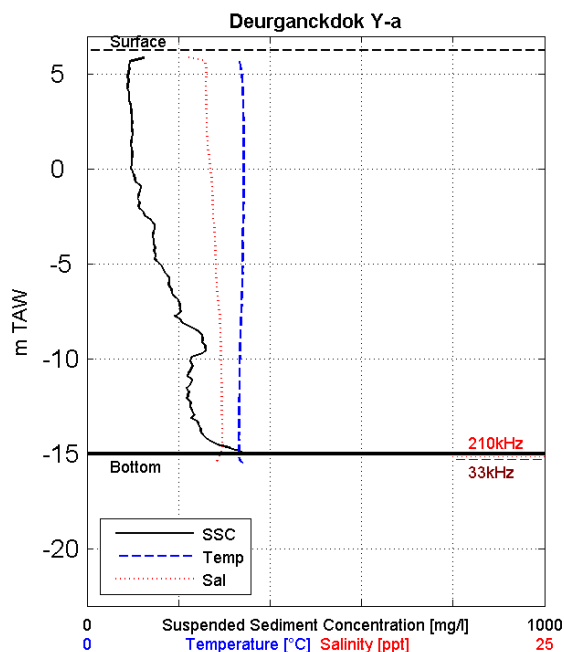
Sourcefile(s):

4132Ya\_ctd.sil

4148Ya\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:54

Time after/before HT [MET]: -0:25

Coordinates [UTM-ED50] Easting: 588610

Coordinates [UTM-ED50] Northing: 5684312

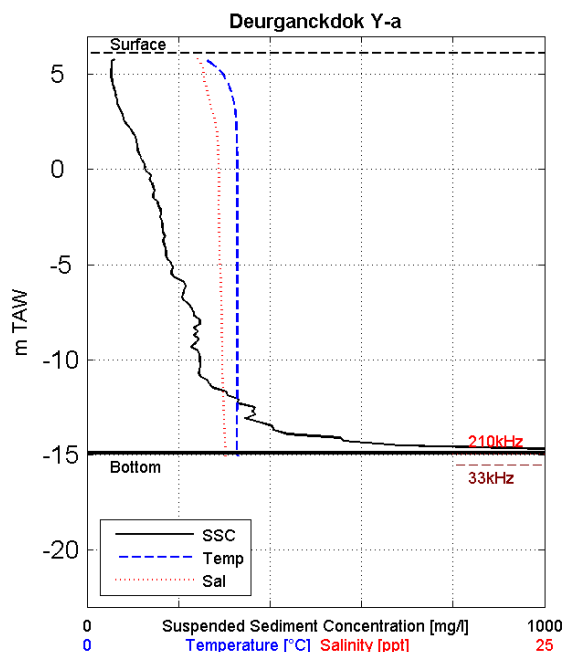
Water-Bottom Interface Siltpr. [m TAW]: -14.98

Waterdepth 210 kHz Echo [m TAW]: -15.14

Waterdepth 33 kHz Echo [m TAW]: -15.27

Surface Elevation [m TAW]: 6.24

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.94	8.2	5.2	142
5.27	8.4	6.5	94
4.43	8.5	6.5	88
3.40	8.5	6.5	97
2.39	8.5	6.5	100
1.28	8.5	6.6	97
0.26	8.6	6.7	97
-0.84	8.5	6.8	118
-2.02	8.5	6.9	115
-3.07	8.5	6.9	152
-4.05	8.5	7.0	141
-5.16	8.5	7.0	168
-6.20	8.5	7.1	181
-7.28	8.5	7.2	203
-8.23	8.3	7.3	216
-9.11	8.4	7.3	261
-10.03	8.3	7.3	225
-11.01	8.3	7.3	217
-12.05	8.3	7.3	213
-13.12	8.3	7.3	232
-14.09	8.3	7.4	255
-14.98	8.3	7.3	357
<b>Depth Avg</b>			
	<b>8.4</b>	<b>6.9</b>	<b>164</b>



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:11

Time after/before HT [MET]: 0:51

Coordinates [UTM-ED50] Easting: 588621

Coordinates [UTM-ED50] Northing: 5684301

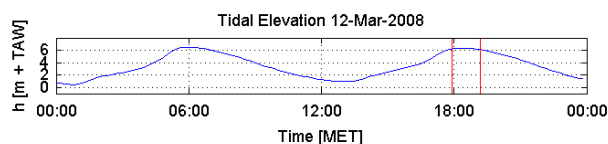
Water-Bottom Interface Siltpr. [m TAW]: -14.92

Waterdepth 210 kHz Echo [m TAW]: -14.98

Waterdepth 33 kHz Echo [m TAW]: -15.53

Surface Elevation [m TAW]: 6.10

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.82	6.3	6.0	60
5.19	7.3	6.3	52
4.40	7.8	6.5	56
3.50	8.0	6.7	73
2.54	8.2	7.0	85
1.43	8.2	7.1	110
0.28	8.2	7.2	125
-0.77	8.2	7.2	141
-1.86	8.2	7.2	155
-2.97	8.2	7.2	164
-4.06	8.2	7.2	168
-5.08	8.2	7.3	189
-6.09	8.2	7.3	210
-7.06	8.2	7.3	224
-8.13	8.2	7.3	243
-8.98	8.2	7.4	234
-9.93	8.2	7.4	251
-10.97	8.2	7.4	252
-11.98	8.2	7.4	271
-12.86	8.2	7.5	381
-13.77	8.2	7.5	392
-14.74	8.1	7.5	982
-14.92	8.1	7.5	4386
<b>Depth Avg</b>			
	<b>8.1</b>	<b>7.2</b>	<b>211</b>



Data Processed by:



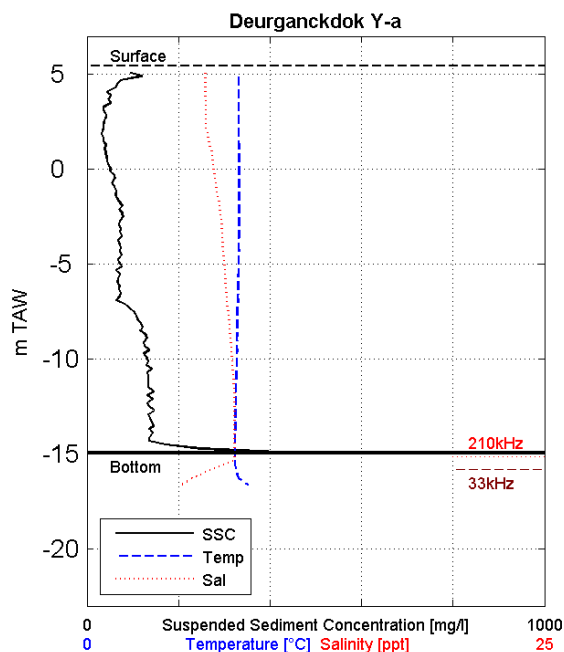
In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

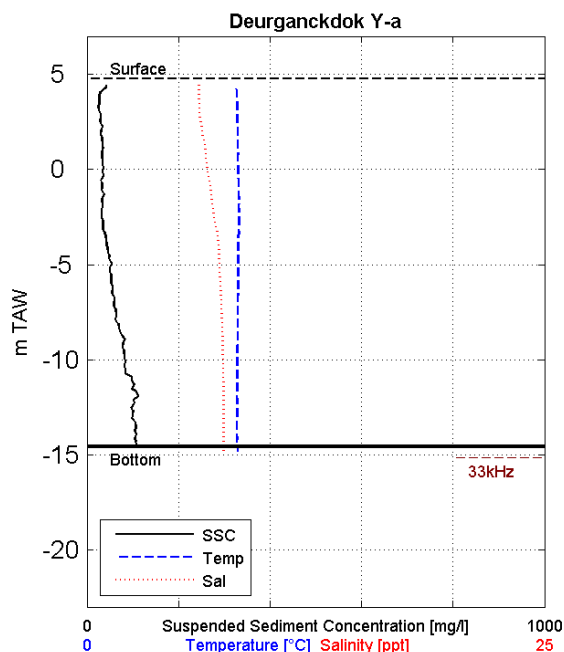
11283	Equipment(s): SiltProfiler & CTD-Diver
Sourcefile(s): 4163Ya_ctd.sil 4178Ya_ctd.sil	Location: Deurganckdok



**Siltprofiler**  
 Date & Time [MET]: 12/3/2008 19:57  
 Time after/before HT [MET]: 1:37  
 Coordinates [UTM-ED50] Easting: 588609  
 Coordinates [UTM-ED50] Northing: 5684291  
 Water-Bottom Interface Siltpr. [m TAW]: -14.95  
 Waterdepth 210 kHz Echo [m TAW]: -15.13  
 Waterdepth 33 kHz Echo [m TAW]: -15.84  
 Surface Elevation [m TAW]: 5.44

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.16	8.3	6.5	87
4.51	8.3	6.5	66
3.59	8.3	6.4	38
2.57	8.3	6.4	38
1.53	8.2	6.6	34
0.55	8.3	6.8	44
-0.44	8.3	7.0	60
-1.49	8.3	7.2	65
-2.59	8.3	7.3	82
-3.69	8.3	7.4	74
-4.77	8.3	7.5	59
-5.88	8.2	7.5	55
-6.86	8.2	7.6	59
-7.87	8.2	7.8	95
-8.75	8.2	7.8	115
-9.81	8.2	7.9	139
-10.72	8.2	8.0	119
-11.60	8.1	8.0	144
-12.38	8.1	8.1	126
-13.23	8.1	8.1	130
-14.05	8.1	8.1	155
-14.89	8.1	8.1	287
-14.95	8.1	8.1	341

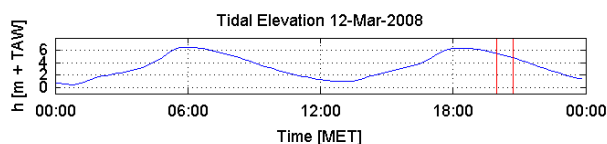
Depth Avg 8.2 7.4 90



**Siltprofiler**  
 Date & Time [MET]: 12/3/2008 20:41  
 Time after/before HT [MET]: 2:21  
 Coordinates [UTM-ED50] Easting: 588618  
 Coordinates [UTM-ED50] Northing: 5684295  
 Water-Bottom Interface Siltpr. [m TAW]: -14.57  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: -15.15  
 Surface Elevation [m TAW]: 4.78

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.48	8.1	6.1	44
4.36	8.1	6.1	40
3.96	8.2	6.1	27
3.17	8.2	6.1	27
2.15	8.2	6.3	30
1.14	8.2	6.4	38
-0.01	8.2	6.6	33
-1.02	8.3	6.7	27
-1.96	8.3	6.8	36
-2.98	8.3	7.0	48
-3.92	8.3	7.2	36
-4.88	8.3	7.2	56
-5.70	8.3	7.3	44
-6.52	8.3	7.3	52
-7.58	8.3	7.3	59
-8.61	8.2	7.4	68
-9.70	8.2	7.4	80
-10.70	8.1	7.4	80
-11.61	8.2	7.5	101
-12.56	8.2	7.5	100
-13.46	8.2	7.5	114
-14.47	8.2	7.5	101
-14.57	8.2	7.5	111

Depth Avg 8.2 7.0 57



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



## **F.7 Location Yb**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

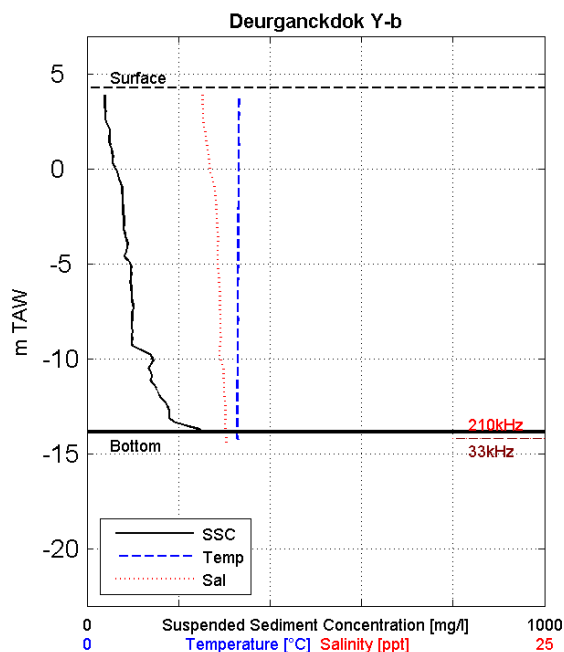
Sourcefile(s):

4009Yb\_ctd.sil

4024Yb\_ctd.sil

Location:

Deurganckdok

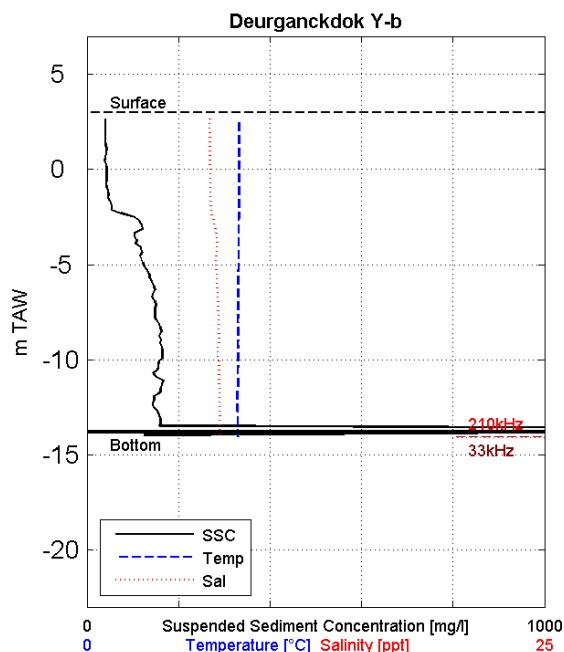


## Siltprofiler

Date & Time [MET]: 12/3/2008 08:44  
Time after/before HT [MET]: 2:44  
Coordinates [UTM-ED50] Easting: 588646  
Coordinates [UTM-ED50] Northing: 5684359  
Water-Bottom Interface Siltpr. [m TAW]: -13.84  
Waterdepth 210 kHz Echo [m TAW]: -14.15  
Waterdepth 33 kHz Echo [m TAW]: -14.17  
Surface Elevation [m TAW]: 4.30

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.00	8.3	6.3	39
3.32	8.3	6.3	38
2.52	8.3	6.3	41
1.65	8.3	6.5	48
0.73	8.3	6.6	55
-0.18	8.3	6.7	62
-1.13	8.3	7.0	76
-1.92	8.2	7.0	79
-2.78	8.3	7.1	79
-3.69	8.3	7.1	86
-4.61	8.2	7.1	83
-5.44	8.2	7.2	95
-6.21	8.2	7.2	98
-7.02	8.2	7.3	99
-7.75	8.2	7.3	98
-8.59	8.2	7.3	97
-9.34	8.2	7.3	100
-10.16	8.2	7.3	144
-11.01	8.2	7.5	141
-11.77	8.2	7.5	156
-12.73	8.2	7.6	178
-13.74	8.2	7.5	253
-13.84	8.1	7.6	714

Depth Avg    8.2    7.0    96

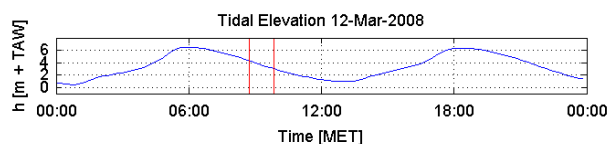


## Siltprofiler

Date & Time [MET]: 12/3/2008 09:50  
Time after/before HT [MET]: 3:50  
Coordinates [UTM-ED50] Easting: 588661  
Coordinates [UTM-ED50] Northing: 5684362  
Water-Bottom Interface Siltpr. [m TAW]: -13.80  
Waterdepth 210 kHz Echo [m TAW]: -14.09  
Waterdepth 33 kHz Echo [m TAW]: -14.05  
Surface Elevation [m TAW]: 3.00

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.71	8.3	6.7	40
2.43	8.3	6.7	37
1.77	8.3	6.7	39
1.09	8.4	6.7	43
0.13	8.3	6.7	44
-0.87	8.3	6.7	41
-1.77	8.3	6.7	55
-2.39	8.3	6.8	91
-2.96	8.3	7.0	120
-3.60	8.3	7.1	104
-4.46	8.3	7.0	115
-5.47	8.3	7.1	136
-6.39	8.3	7.1	148
-7.17	8.2	7.2	152
-7.92	8.3	7.2	152
-8.77	8.2	7.2	155
-9.64	8.2	7.2	166
-10.73	8.2	7.2	142
-11.60	8.2	7.2	163
-12.35	8.2	7.2	146
-13.01	8.3	7.2	160
-13.71	8.2	7.2	152
-13.80	8.2	7.2	155

Depth Avg    8.3    7.0    130



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

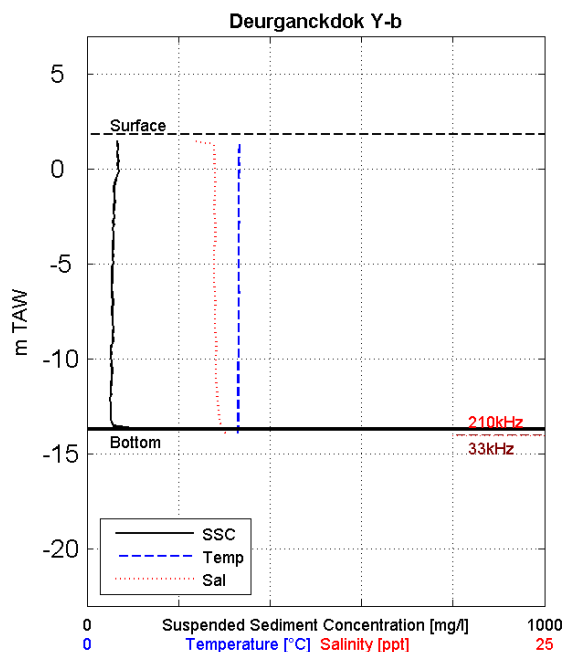
Sourcefile(s):

4039Yb\_ctd.sil

4055Yb\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 11:05

Time after/before HT [MET]: 5:05

Coordinates [UTM-ED50] Easting: 588670

Coordinates [UTM-ED50] Northing: 5684371

Water-Bottom Interface Siltpr. [m TAW]: -13.68

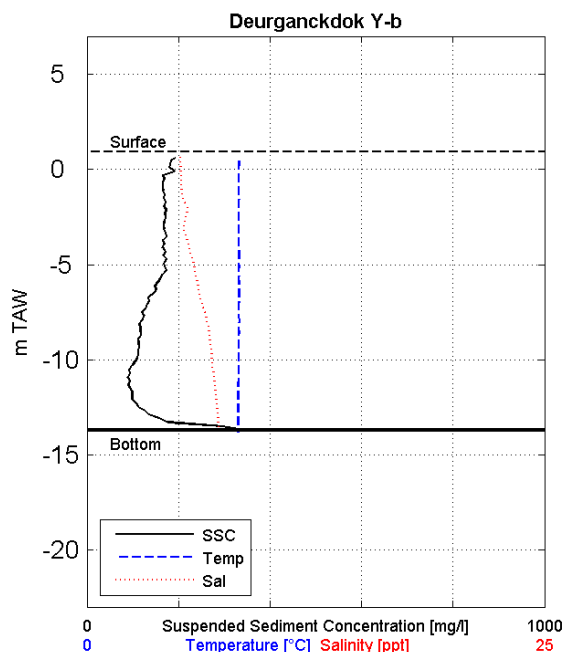
Waterdepth 210 kHz Echo [m TAW]: -14.03

Waterdepth 33 kHz Echo [m TAW]: -14.00

Surface Elevation [m TAW]: 1.84

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.53	8.3	5.2	67
0.92	8.3	7.0	67
0.25	8.3	7.0	67
-0.38	8.2	7.0	63
-1.06	8.3	7.0	63
-1.66	8.3	7.0	61
-2.37	8.2	7.0	59
-3.10	8.3	7.0	55
-3.86	8.3	7.0	57
-4.72	8.3	6.9	55
-5.52	8.2	6.9	52
-6.34	8.3	7.0	52
-7.03	8.3	7.0	56
-7.85	8.3	7.0	52
-8.63	8.3	7.0	55
-9.36	8.2	7.1	52
-10.12	8.3	7.0	56
-10.85	8.2	7.0	53
-11.61	8.2	7.1	50
-12.26	8.3	7.1	52
-12.95	8.3	7.2	52
-13.60	8.2	7.4	59
-13.68	8.2	7.4	114

Depth Avg 8.3 7.0 57



**Siltprofiler**

Date & Time [MET]: 12/3/2008 12:45

Time after/before HT [MET]: 6:45

Coordinates [UTM-ED50] Easting: 588646

Coordinates [UTM-ED50] Northing: 5684377

Water-Bottom Interface Siltpr. [m TAW]: -13.71

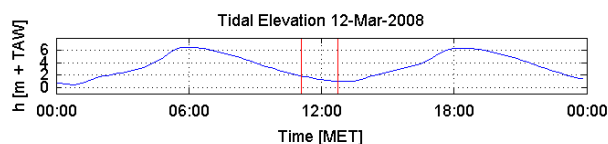
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 0.95

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.66	8.3	5.1	191
0.16	8.3	5.1	180
-0.38	8.3	5.1	167
-0.94	8.3	5.1	162
-1.56	8.3	5.3	172
-2.21	8.3	5.5	171
-2.93	8.2	5.3	158
-3.67	8.3	5.4	158
-4.52	8.3	5.7	163
-5.36	8.3	5.9	186
-6.05	8.3	6.0	145
-6.75	8.3	6.2	141
-7.37	8.3	6.4	118
-8.01	8.3	6.5	108
-8.72	8.3	6.7	120
-9.47	8.3	6.8	118
-10.28	8.3	6.8	100
-11.11	8.3	7.0	87
-11.83	8.2	7.0	111
-12.40	8.3	7.1	110
-12.93	8.3	7.1	140
-13.47	8.2	7.2	241
-13.71	8.2	7.2	402

Depth Avg 8.3 6.1 146



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

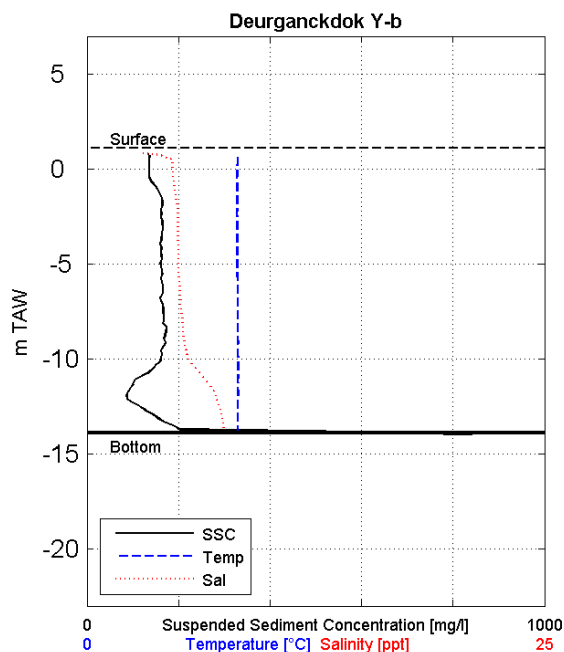
Sourcefile(s):

4070Yb\_ctd.sil

4085Yb\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:34

Time after/before HT [MET]: -4:45

Coordinates [UTM-ED50] Easting: 588682

Coordinates [UTM-ED50] Northing: 5684360

Water-Bottom Interface Siltpr. [m TAW]: -13.89

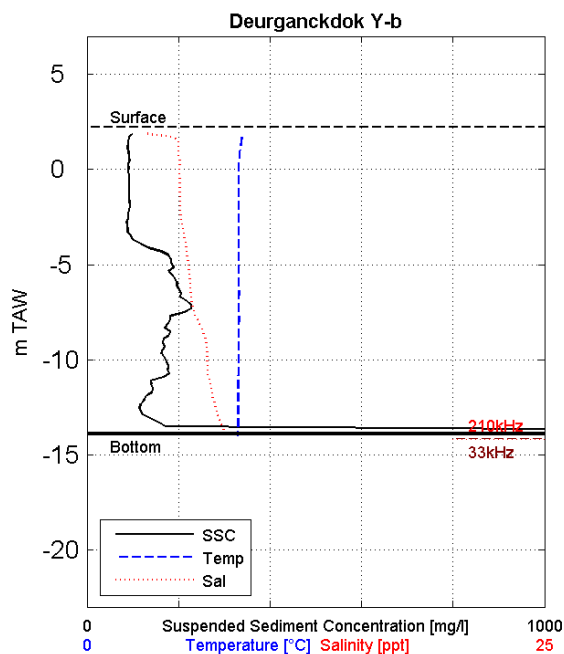
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 1.11

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.83	8.2	3.0	136
0.26	8.2	4.7	135
-0.38	8.2	4.7	136
-1.07	8.2	4.8	154
-1.84	8.2	4.9	164
-2.46	8.1	5.0	160
-3.17	8.2	5.0	163
-3.88	8.2	5.0	157
-4.48	8.2	5.0	168
-5.07	8.2	5.0	159
-5.86	8.2	5.0	162
-6.60	8.2	5.1	162
-7.28	8.2	5.1	168
-7.99	8.2	5.2	168
-8.68	8.2	5.2	171
-9.29	8.2	5.3	169
-9.95	8.3	5.5	164
-10.67	8.3	6.1	131
-11.27	8.2	6.6	98
-11.90	8.3	7.0	85
-12.84	8.2	7.3	145
-13.70	8.2	7.5	201
-13.89	8.2	7.5	7041

Depth Avg 8.2 5.4 160



**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:42

Time after/before HT [MET]: -3:37

Coordinates [UTM-ED50] Easting: 588673

Coordinates [UTM-ED50] Northing: 5684379

Water-Bottom Interface Siltpr. [m TAW]: -13.88

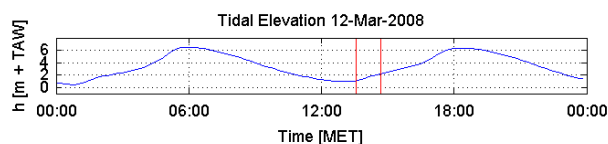
Waterdepth 210 kHz Echo [m TAW]: -14.19

Waterdepth 33 kHz Echo [m TAW]: -14.15

Surface Elevation [m TAW]: 2.23

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.95	8.5	2.7	104
1.27	8.4	5.0	89
0.91	8.4	5.0	88
0.49	8.3	5.0	91
-0.08	8.3	5.0	90
-0.89	8.2	5.0	89
-1.85	8.3	5.1	94
-2.74	8.2	5.2	86
-3.57	8.2	5.3	99
-4.34	8.3	5.4	159
-5.17	8.3	5.6	185
-6.03	8.3	5.6	193
-6.96	8.2	5.7	223
-7.90	8.3	6.0	183
-8.77	8.3	6.4	180
-9.42	8.2	6.5	159
-10.22	8.2	6.6	183
-11.02	8.3	6.7	140
-11.77	8.2	6.8	136
-12.58	8.3	7.0	117
-13.23	8.2	7.3	158
-13.88	8.2	7.5	6035

Depth Avg 8.3 5.8 183



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

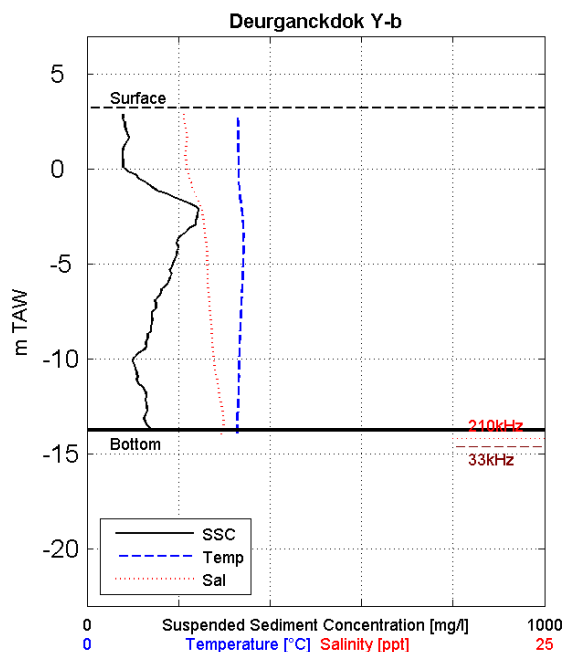
Sourcefile(s):

4101Yb\_ctd.sil

4116Yb\_ctd.sil

Location:

Deurganckdok

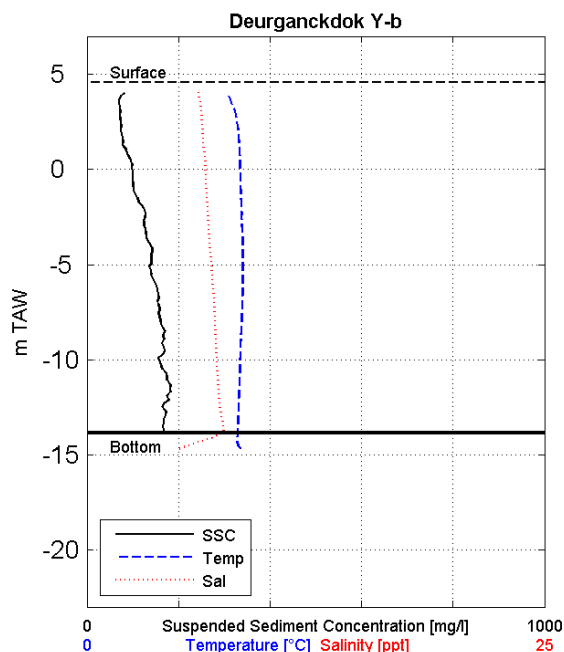


## Siltprofiler

Date & Time [MET]: 12/3/2008 15:54  
 Time after/before HT [MET]: -2:25  
 Coordinates [UTM-ED50] Easting: 588657  
 Coordinates [UTM-ED50] Northing: 5684383  
 Water-Bottom Interface Siltpr. [m TAW]: -13.76  
 Waterdepth 210 kHz Echo [m TAW]: -14.18  
 Waterdepth 33 kHz Echo [m TAW]: -14.59  
 Surface Elevation [m TAW]: 3.24

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.94	8.2	5.3	81
2.43	8.3	5.3	84
1.68	8.2	5.4	91
0.83	8.3	5.4	78
-0.11	8.3	5.5	77
-0.82	8.3	5.7	137
-1.52	8.3	6.0	198
-2.34	8.5	6.3	233
-3.14	8.5	6.4	219
-4.03	8.6	6.5	197
-5.17	8.5	6.6	184
-5.97	8.5	6.6	178
-6.73	8.5	6.6	151
-7.46	8.4	6.7	144
-8.21	8.4	6.8	138
-9.01	8.3	6.8	128
-9.82	8.3	6.9	109
-10.61	8.3	7.0	109
-11.36	8.2	7.1	113
-12.12	8.2	7.3	131
-12.78	8.2	7.4	127
-13.48	8.2	7.5	130
-13.76	8.2	7.4	147

Depth Avg 8.4 6.4 142

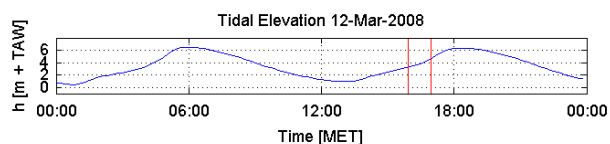


## Siltprofiler

Date & Time [MET]: 12/3/2008 16:56  
 Time after/before HT [MET]: -1:23  
 Coordinates [UTM-ED50] Easting: 588663  
 Coordinates [UTM-ED50] Northing: 5684380  
 Water-Bottom Interface Siltpr. [m TAW]: -13.87  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 4.60

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.07	7.6	6.0	77
3.23	8.0	6.2	70
2.54	8.2	6.3	75
1.67	8.3	6.3	81
0.77	8.3	6.4	90
-0.02	8.3	6.5	97
-0.94	8.4	6.5	102
-1.88	8.4	6.6	118
-2.82	8.4	6.6	124
-3.70	8.5	6.7	132
-4.65	8.5	6.8	141
-5.59	8.5	6.8	137
-6.48	8.5	6.9	151
-7.42	8.4	7.0	158
-8.28	8.4	7.0	164
-9.06	8.4	7.0	168
-9.90	8.3	7.0	157
-10.67	8.4	7.1	164
-11.37	8.3	7.2	182
-12.16	8.3	7.2	180
-12.91	8.2	7.3	170
-13.72	8.2	7.5	164
-13.87	8.2	7.5	173

Depth Avg 8.3 6.7 131



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

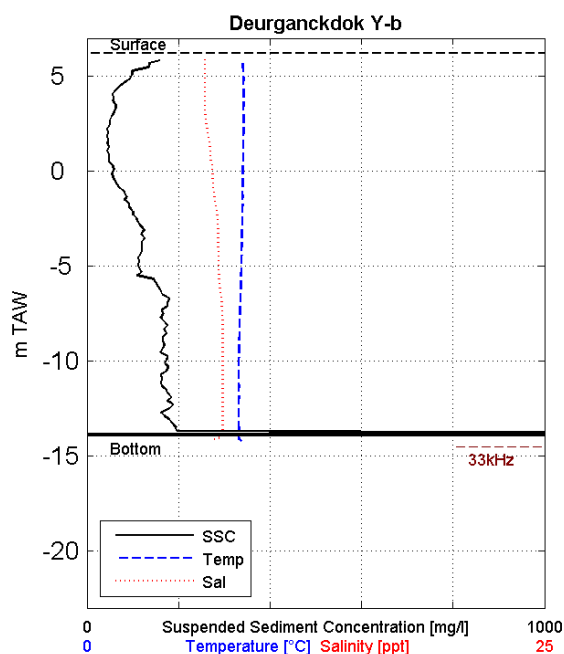
Sourcefile(s):

4131Yb\_ctd.sil

4147Yb\_ctd.sil

Location:

Deurganckdok

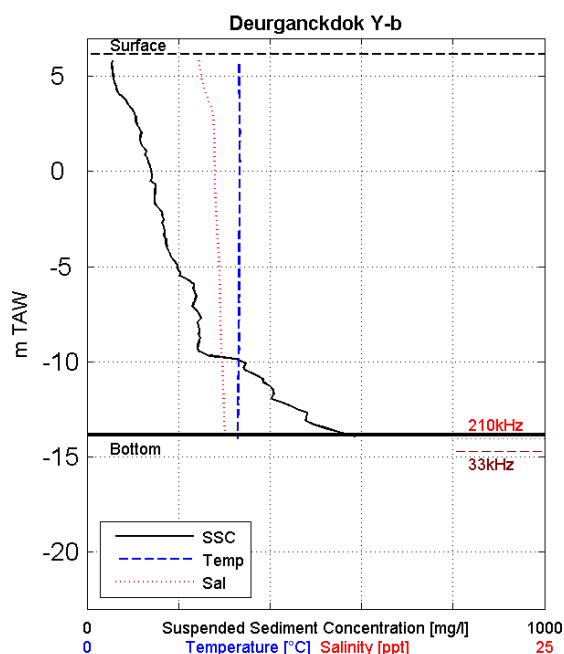


## Siltprofiler

Date & Time [MET]: 12/3/2008 17:50  
 Time after/before HT [MET]: -0:29  
 Coordinates [UTM-ED50] Easting: 588659  
 Coordinates [UTM-ED50] Northing: 5684382  
 Water-Bottom Interface Siltpr. [m TAW]: -13.90  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: -14.50  
 Surface Elevation [m TAW]: 6.20

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.92	8.5	6.4	174
5.29	8.5	6.4	124
4.47	8.6	6.4	63
3.42	8.5	6.4	60
2.44	8.6	6.5	41
1.61	8.5	6.7	43
0.61	8.5	6.8	43
-0.41	8.5	6.9	74
-1.46	8.5	7.0	84
-2.48	8.5	7.1	122
-3.56	8.4	7.2	115
-4.50	8.4	7.2	123
-5.44	8.5	7.2	100
-6.45	8.4	7.3	173
-7.43	8.4	7.4	137
-8.40	8.3	7.4	172
-9.35	8.3	7.4	150
-10.26	8.3	7.4	161
-11.14	8.2	7.4	166
-12.05	8.3	7.4	224
-12.86	8.3	7.4	128
-13.72	8.2	7.4	195
-13.90	8.2	7.4	82

Depth Avg    8.4    7.0    128

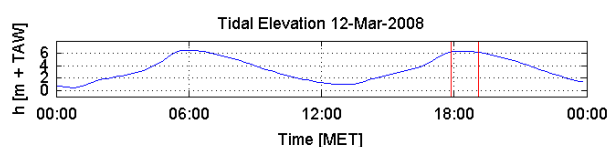


## Siltprofiler

Date & Time [MET]: 12/3/2008 19:07  
 Time after/before HT [MET]: 0:47  
 Coordinates [UTM-ED50] Easting: 588671  
 Coordinates [UTM-ED50] Northing: 5684380  
 Water-Bottom Interface Siltpr. [m TAW]: -13.86  
 Waterdepth 210 kHz Echo [m TAW]: -14.04  
 Waterdepth 33 kHz Echo [m TAW]: -14.72  
 Surface Elevation [m TAW]: 6.14

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.85	8.3	6.1	55
5.02	8.3	6.2	56
4.14	8.3	6.5	69
3.21	8.3	6.8	101
2.36	8.3	6.9	112
1.36	8.3	6.9	117
0.29	8.3	7.0	136
-0.83	8.3	7.0	149
-1.89	8.3	7.0	155
-2.89	8.3	7.1	167
-3.87	8.3	7.2	171
-4.80	8.3	7.2	199
-5.71	8.3	7.2	226
-6.73	8.3	7.3	238
-7.69	8.3	7.3	251
-8.60	8.2	7.3	247
-9.45	8.3	7.3	246
-10.28	8.3	7.4	349
-11.18	8.3	7.4	390
-12.10	8.2	7.5	421
-12.98	8.2	7.5	477
-13.75	8.2	7.5	555
-13.86	8.2	7.5	1914

Depth Avg    8.3    7.1    213



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

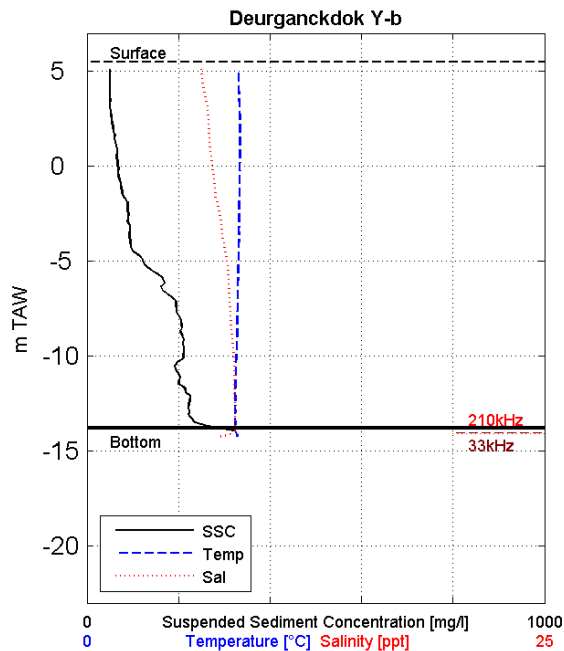
SiltProfiler & CTD-Diver

Sourcefile(s):

4162Yb\_ctd.sil  
4177Yb\_ctd.sil

Location:

Deurganckdok

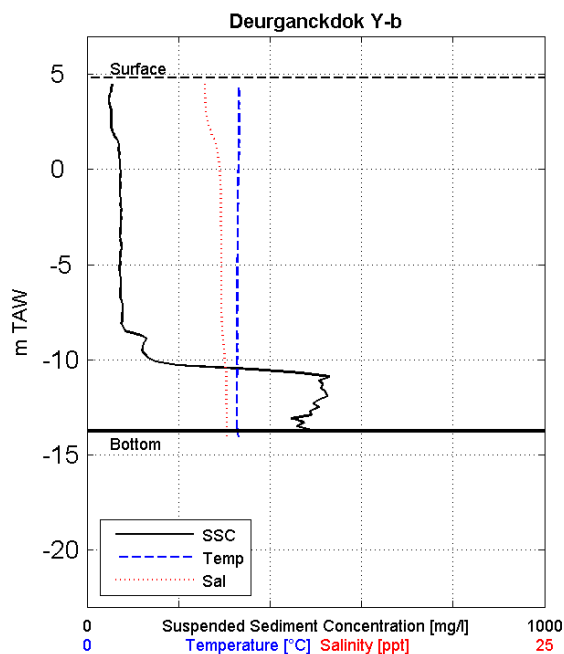


## Siltprofiler

Date & Time [MET]: 12/3/2008 19:55  
Time after/before HT [MET]: 1:35  
Coordinates [UTM-ED50] Easting: 588668  
Coordinates [UTM-ED50] Northing: 5684376  
Water-Bottom Interface Siltpr. [m TAW]: -13.80  
Waterdepth 210 kHz Echo [m TAW]: -14.07  
Waterdepth 33 kHz Echo [m TAW]: -14.01  
Surface Elevation [m TAW]: 5.48

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.18	8.3	6.2	50
4.46	8.2	6.3	44
3.62	8.3	6.5	51
2.72	8.3	6.6	52
1.67	8.4	6.7	62
0.81	8.4	6.7	65
-0.07	8.3	6.8	64
-0.92	8.3	7.0	76
-1.88	8.3	7.1	86
-3.03	8.3	7.3	91
-4.09	8.3	7.5	100
-5.08	8.2	7.6	121
-5.98	8.2	7.7	168
-6.94	8.2	7.8	191
-7.83	8.2	7.8	201
-8.77	8.2	7.9	206
-9.66	8.1	8.0	208
-10.46	8.1	8.0	193
-11.26	8.1	8.1	200
-12.08	8.1	8.1	225
-12.89	8.1	8.0	224
-13.70	8.1	8.1	258
-13.80	8.1	8.1	348

Depth Avg 8.2 7.3 129

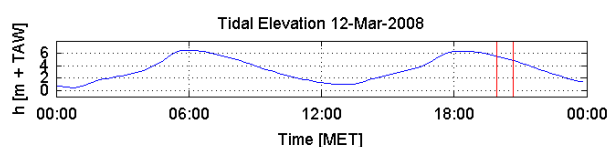


## Siltprofiler

Date & Time [MET]: 12/3/2008 20:39  
Time after/before HT [MET]: 2:19  
Coordinates [UTM-ED50] Easting: 588660  
Coordinates [UTM-ED50] Northing: 5684379  
Water-Bottom Interface Siltpr. [m TAW]: -13.75  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 4.82

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.53	8.3	6.4	56
4.27	8.3	6.4	51
3.55	8.3	6.5	46
2.74	8.3	6.5	51
1.85	8.3	6.8	68
0.91	8.3	7.1	69
-0.07	8.3	7.2	71
-0.94	8.2	7.3	73
-1.74	8.2	7.3	73
-2.59	8.2	7.3	73
-3.56	8.2	7.3	70
-4.49	8.2	7.3	72
-5.49	8.2	7.3	72
-6.37	8.3	7.3	73
-7.30	8.2	7.3	75
-8.31	8.2	7.4	81
-9.12	8.2	7.5	126
-10.06	8.2	7.5	139
-10.90	8.1	7.6	534
-11.76	8.2	7.6	526
-12.68	8.2	7.6	457
-13.47	8.2	7.6	476
-13.75	8.2	7.6	486

Depth Avg 8.2 7.2 149



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.8 Location Yc**



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

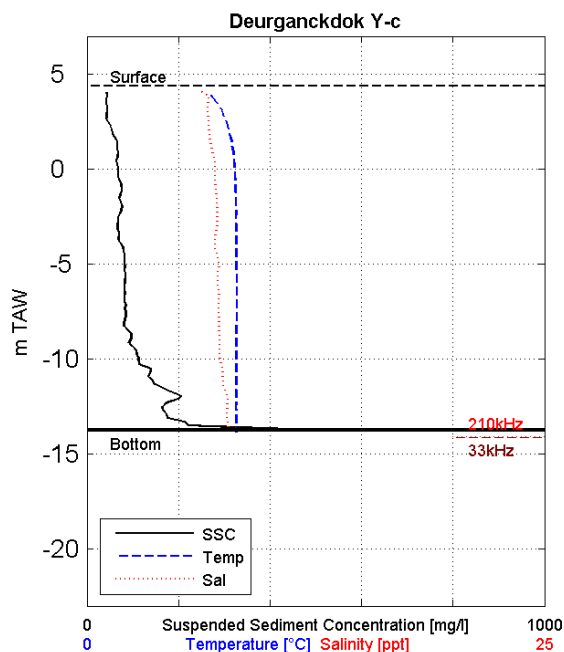
Sourcefile(s):

4008Yc\_ctd.sil

4023Yc\_ctd.sil

Location:

Deurganckdok

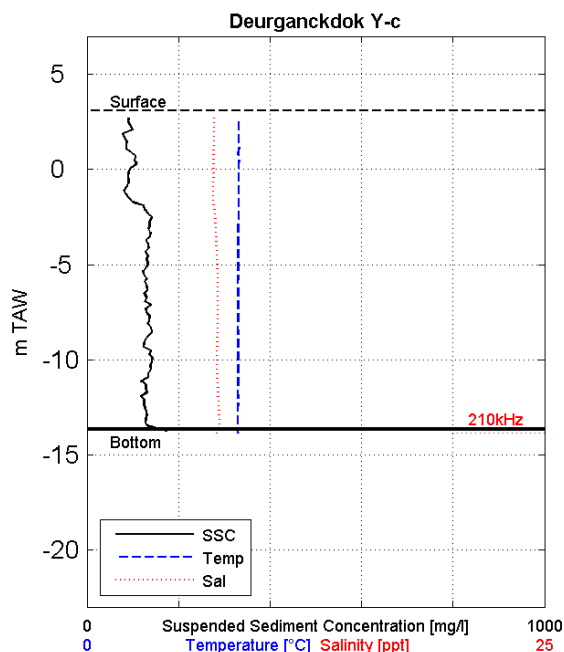


## Siltprofiler

Date & Time [MET]: 12/3/2008 08:40  
Time after/before HT [MET]: 2:40  
Coordinates [UTM-ED50] Easting: 588707  
Coordinates [UTM-ED50] Northing: 5684439  
Water-Bottom Interface Siltpr. [m TAW]: -13.75  
Waterdepth 210 kHz Echo [m TAW]: -14.09  
Waterdepth 33 kHz Echo [m TAW]: -14.12  
Surface Elevation [m TAW]: 4.38

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.09	6.5	5.8	44
3.24	7.2	6.6	43
2.19	7.8	6.6	52
1.24	7.9	6.8	65
0.37	8.0	7.0	63
-0.55	8.1	7.0	73
-1.44	8.1	7.0	72
-2.24	8.2	7.1	70
-2.99	8.1	7.1	68
-3.74	8.1	7.0	63
-4.51	8.2	7.1	81
-5.43	8.1	7.2	82
-6.35	8.1	7.2	80
-7.12	8.2	7.2	80
-7.95	8.2	7.2	81
-8.83	8.1	7.2	97
-9.69	8.1	7.2	106
-10.36	8.2	7.3	128
-11.24	8.1	7.4	148
-12.23	8.1	7.7	168
-13.05	8.1	7.6	173
-13.75	8.1	7.8	291
-13.75	8.2	7.8	2968

Depth Avg    8.0    7.1    93

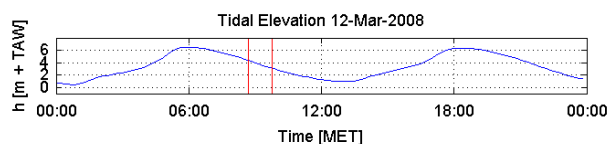


## Siltprofiler

Date & Time [MET]: 12/3/2008 09:46  
Time after/before HT [MET]: 3:46  
Coordinates [UTM-ED50] Easting: 588691  
Coordinates [UTM-ED50] Northing: 5684458  
Water-Bottom Interface Siltpr. [m TAW]: -13.65  
Waterdepth 210 kHz Echo [m TAW]: -13.84  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 3.07

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.78	8.1	7.0	44
2.71	8.1	6.9	66
2.62	8.2	6.9	90
2.20	8.3	6.9	94
1.59	8.3	6.9	84
0.65	8.3	6.9	100
-0.41	8.2	6.9	91
-1.41	8.3	6.8	81
-2.32	8.3	7.0	130
-3.12	8.2	7.0	131
-3.82	8.3	7.0	143
-4.52	8.2	7.1	131
-5.27	8.3	7.1	116
-6.06	8.3	7.1	124
-7.03	8.3	7.2	140
-7.95	8.3	7.1	132
-8.86	8.2	7.1	138
-9.75	8.2	7.1	138
-10.64	8.2	7.1	123
-11.56	8.2	7.1	111
-12.52	8.2	7.2	135
-13.45	8.2	7.3	123
-13.65	8.3	7.3	1164

Depth Avg    8.3    7.0    121



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

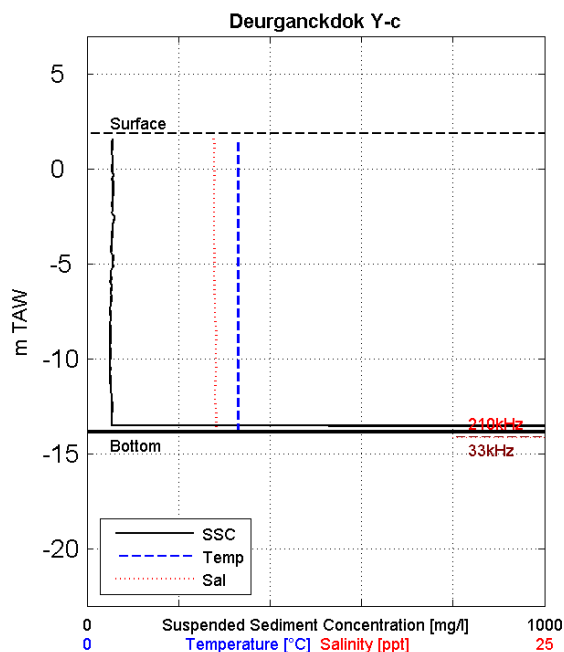
Sourcefile(s):

4038Yc\_ctd.sil

4054Yc\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 11:01

Time after/before HT [MET]: 5:01

Coordinates [UTM-ED50] Easting: 588717

Coordinates [UTM-ED50] Northing: 5684426

Water-Bottom Interface Siltpr. [m TAW]: -13.86

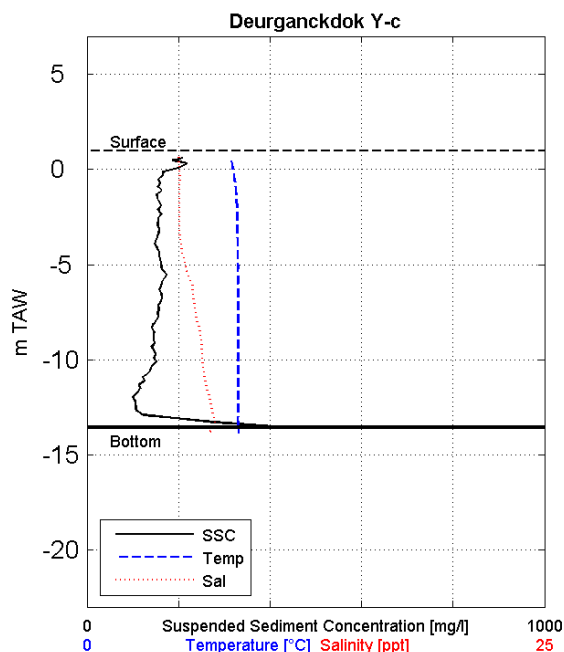
Waterdepth 210 kHz Echo [m TAW]: -14.12

Waterdepth 33 kHz Echo [m TAW]: -14.08

Surface Elevation [m TAW]: 1.89

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.61	8.3	6.9	56
0.85	8.3	6.9	56
0.08	8.2	6.9	54
-0.83	8.2	6.9	55
-1.75	8.3	6.9	58
-2.55	8.3	6.9	56
-3.49	8.2	6.9	53
-4.38	8.2	7.0	54
-5.22	8.3	6.9	51
-6.21	8.2	7.0	52
-7.09	8.3	6.9	50
-7.86	8.2	7.0	51
-8.72	8.2	7.0	53
-9.48	8.3	7.0	47
-10.35	8.2	7.0	52
-11.12	8.3	7.0	53
-11.67	8.3	7.0	51
-12.60	8.2	7.0	53
-13.22	8.2	7.1	53
-13.76	8.2	7.0	457
-13.79	8.3	7.0	13042
-13.83	8.3	7.0	5329
-13.86	8.3	7.0	17218

Depth Avg 8.3 7.0 138



**Siltprofiler**

Date & Time [MET]: 12/3/2008 12:43

Time after/before HT [MET]: 6:43

Coordinates [UTM-ED50] Easting: 588689

Coordinates [UTM-ED50] Northing: 5684457

Water-Bottom Interface Siltpr. [m TAW]: -13.59

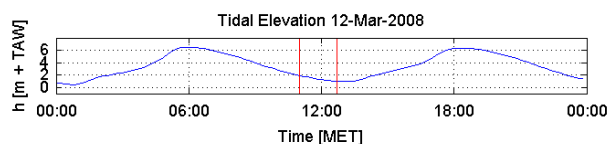
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 0.95

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.66	7.8	5.0	212
0.05	7.9	5.0	151
-0.58	8.0	5.0	153
-1.21	8.1	5.0	150
-1.91	8.1	5.0	158
-2.62	8.2	5.0	152
-3.30	8.2	5.0	155
-3.89	8.2	5.1	134
-4.58	8.3	5.3	166
-5.46	8.2	5.5	159
-6.24	8.3	5.8	161
-6.86	8.2	5.8	187
-7.45	8.3	5.9	139
-8.17	8.3	6.1	155
-8.91	8.2	6.2	145
-9.52	8.2	6.3	148
-10.11	8.2	6.3	139
-10.71	8.2	6.4	126
-11.43	8.3	6.5	107
-12.13	8.2	6.7	98
-12.82	8.2	6.9	113
-13.46	8.3	7.0	403
-13.59	8.2	6.9	3654

Depth Avg 8.2 5.7 157



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

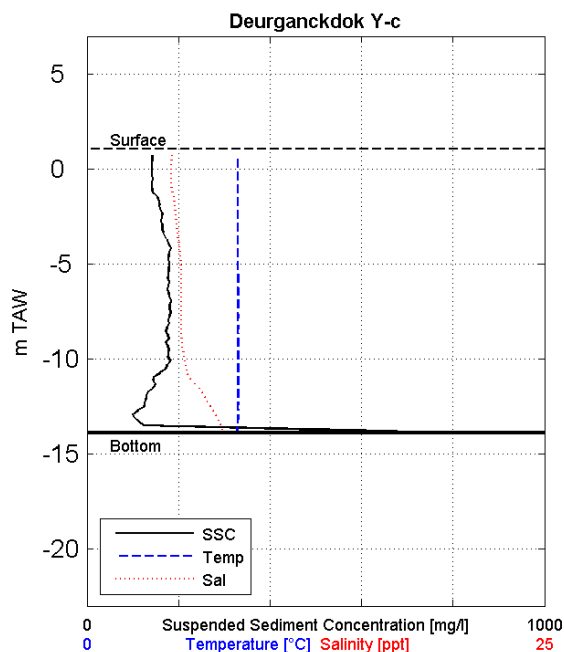
Sourcefile(s):

4069Yc\_ctd.sil

4084Yc\_ctd.sil

Location:

Deurganckdok

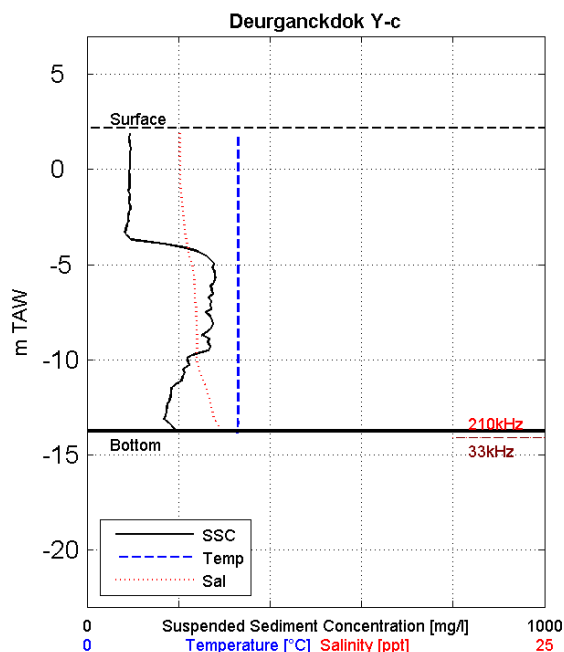


**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:30  
Time after/before HT [MET]: -4:49  
Coordinates [UTM-ED50] Easting: 588716  
Coordinates [UTM-ED50] Northing: 5684434  
Water-Bottom Interface Siltpr. [m TAW]: -13.88  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 1.06

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.78	8.2	4.6	143
0.19	8.3	4.6	140
-0.34	8.2	4.6	144
-1.13	8.2	4.7	140
-1.94	8.2	4.8	155
-2.66	8.2	4.9	162
-3.42	8.2	5.0	168
-4.42	8.3	5.1	179
-5.36	8.2	5.1	178
-6.21	8.2	5.2	168
-7.06	8.2	5.2	180
-8.08	8.2	5.1	177
-8.92	8.3	5.2	179
-9.69	8.3	5.3	181
-10.61	8.2	5.4	168
-11.42	8.3	6.0	149
-12.13	8.3	6.5	129
-13.01	8.3	7.0	100
-13.76	8.2	7.4	957
-13.79	8.2	7.4	553
-13.82	8.2	7.4	1904
-13.85	8.2	7.5	237
-13.88	8.2	7.5	698

Depth Avg 8.2 5.3 165

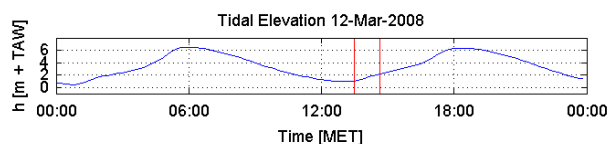


**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:38  
Time after/before HT [MET]: -3:41  
Coordinates [UTM-ED50] Easting: 588723  
Coordinates [UTM-ED50] Northing: 5684436  
Water-Bottom Interface Siltpr. [m TAW]: -13.77  
Waterdepth 210 kHz Echo [m TAW]: -14.08  
Waterdepth 33 kHz Echo [m TAW]: -14.11  
Surface Elevation [m TAW]: 2.17

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.88	8.2	5.0	95
1.38	8.3	5.1	94
0.89	8.2	5.0	92
0.16	8.2	5.0	97
-0.55	8.2	5.1	94
-1.29	8.2	5.1	92
-2.15	8.2	5.2	98
-2.91	8.2	5.3	87
-3.63	8.2	5.4	88
-4.34	8.3	5.5	239
-4.99	8.2	5.7	280
-5.74	8.3	5.9	276
-6.49	8.2	5.9	272
-7.28	8.3	5.9	273
-8.07	8.3	6.0	272
-8.87	8.3	6.0	263
-9.61	8.3	6.0	248
-10.35	8.2	6.1	220
-11.15	8.3	6.4	201
-11.98	8.2	6.7	182
-12.72	8.2	6.8	171
-13.43	8.2	7.2	180
-13.77	8.2	7.4	199

Depth Avg 8.3 5.8 181



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

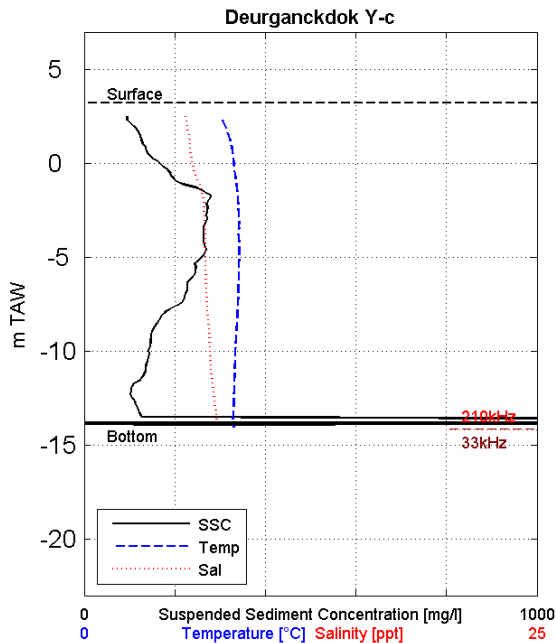
Sourcefile(s):

4100Yc\_ctd.sil

4115Yc\_ctd.sil

Location:

Deurganckdok

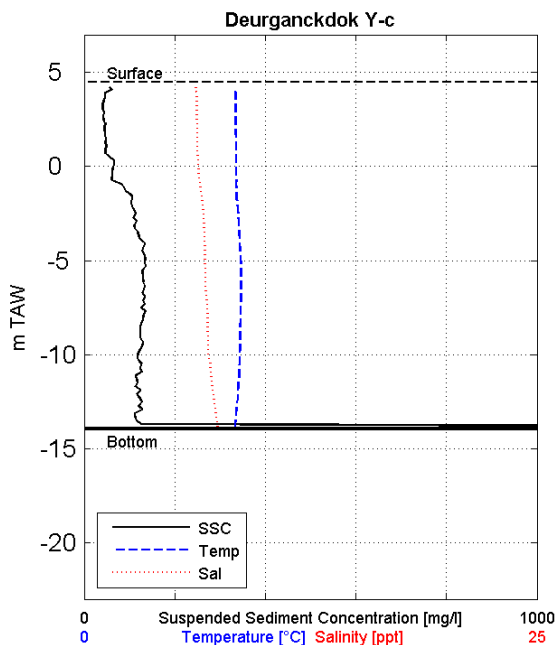


**Siltprofiler**

Date & Time [MET]: 12/3/2008 15:52  
 Time after/before HT [MET]: -2:27  
 Coordinates [UTM-ED50] Easting: 588716  
 Coordinates [UTM-ED50] Northing: 5684439  
 Water-Bottom Interface Siltpr. [m TAW]: -13.82  
 Waterdepth 210 kHz Echo [m TAW]: -14.18  
 Waterdepth 33 kHz Echo [m TAW]: -14.13  
 Surface Elevation [m TAW]: 3.20

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.56	7.5	5.5	108
1.96	7.8	5.7	109
1.43	8.0	5.8	126
0.91	8.2	5.8	134
0.20	8.3	5.9	153
-0.53	8.3	6.1	191
-1.26	8.4	6.5	241
-1.95	8.5	6.6	270
-2.65	8.5	6.6	266
-3.53	8.6	6.6	263
-4.37	8.6	6.6	265
-5.22	8.5	6.7	247
-5.99	8.5	6.7	238
-6.85	8.5	6.7	224
-7.55	8.5	6.8	206
-8.38	8.4	6.8	162
-9.33	8.4	6.9	147
-10.13	8.4	6.9	142
-10.89	8.3	7.0	136
-11.82	8.3	7.1	103
-12.72	8.3	7.2	114
-13.54	8.2	7.3	131
-13.82	8.2	7.3	66

Depth Avg 8.3 6.6 202

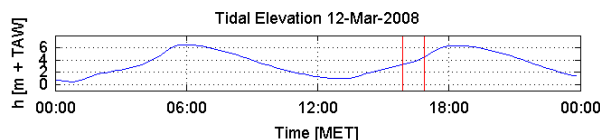


**Siltprofiler**

Date & Time [MET]: 12/3/2008 16:52  
 Time after/before HT [MET]: -1:27  
 Coordinates [UTM-ED50] Easting: 588703  
 Coordinates [UTM-ED50] Northing: 5684453  
 Water-Bottom Interface Siltpr. [m TAW]: -13.93  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 4.48

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.20	8.2	6.2	55
4.02	8.4	6.2	42
3.43	8.3	6.2	37
2.56	8.4	6.2	46
1.89	8.4	6.2	46
1.00	8.4	6.2	46
-0.15	8.3	6.3	61
-1.10	8.4	6.4	86
-2.25	8.5	6.5	99
-3.14	8.5	6.6	110
-3.98	8.6	6.6	117
-4.88	8.6	6.7	133
-5.81	8.7	6.7	142
-7.02	8.7	6.7	126
-8.08	8.6	6.8	144
-9.10	8.6	6.8	122
-10.01	8.6	6.8	129
-11.12	8.5	7.0	104
-12.18	8.4	7.1	123
-13.30	8.3	7.3	123
-13.89	8.2	7.4	2349
-13.92	8.2	7.4	4069
-13.93	8.2	7.4	4874

Depth Avg 8.5 6.6 113



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

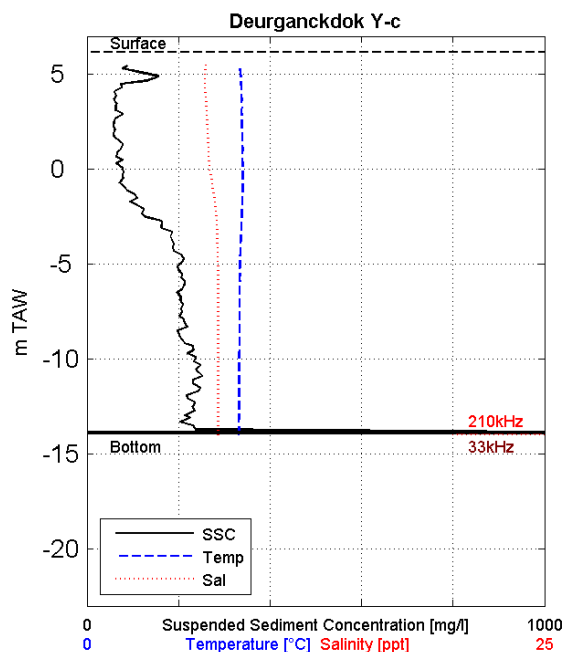
Sourcefile(s):

4130Yc\_ctd.sil

4146Yc\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:48

Time after/before HT [MET]: -0:31

Coordinates [UTM-ED50] Easting: 588697

Coordinates [UTM-ED50] Northing: 5684455

Water-Bottom Interface Siltpr. [m TAW]: -13.90

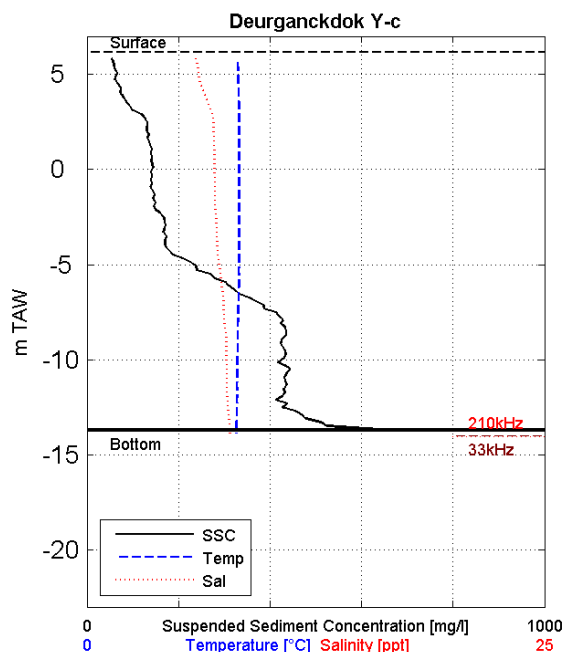
Waterdepth 210 kHz Echo [m TAW]: -13.98

Waterdepth 33 kHz Echo [m TAW]: -13.93

Surface Elevation [m TAW]: 6.16

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.51	8.3	6.5	85
4.64	8.4	6.4	402
3.02	8.4	6.5	72
1.67	8.5	6.6	75
0.60	8.4	6.6	67
-0.41	8.5	6.8	72
-1.25	8.5	6.9	90
-2.13	8.4	7.0	118
-3.15	8.4	7.1	178
-4.04	8.4	7.1	204
-4.91	8.4	7.1	208
-5.73	8.3	7.1	216
-6.42	8.3	7.2	214
-7.12	8.3	7.2	206
-7.83	8.3	7.2	214
-8.64	8.3	7.2	189
-9.42	8.2	7.2	242
-10.19	8.2	7.2	255
-11.05	8.3	7.1	241
-11.91	8.3	7.2	242
-12.79	8.3	7.2	231
-13.74	8.3	7.2	269
-13.90	8.3	7.2	27333

Depth Avg 8.4 6.9 174



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:03

Time after/before HT [MET]: 0:43

Coordinates [UTM-ED50] Easting: 588710

Coordinates [UTM-ED50] Northing: 5684459

Water-Bottom Interface Siltpr. [m TAW]: -13.73

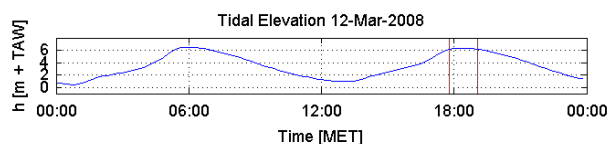
Waterdepth 210 kHz Echo [m TAW]: -14.03

Waterdepth 33 kHz Echo [m TAW]: -14.00

Surface Elevation [m TAW]: 6.18

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.88	8.2	5.9	55
5.25	8.3	6.0	52
4.46	8.2	6.2	75
3.54	8.3	6.6	85
2.75	8.3	6.9	124
1.78	8.3	6.9	129
0.79	8.3	7.0	140
-0.20	8.3	7.0	138
-1.17	8.3	7.0	141
-2.04	8.3	7.0	152
-2.97	8.3	7.1	175
-3.97	8.3	7.1	170
-5.08	8.3	7.2	234
-6.06	8.3	7.3	303
-7.11	8.2	7.5	380
-8.10	8.2	7.5	434
-9.05	8.2	7.6	413
-9.98	8.2	7.6	428
-10.94	8.2	7.6	435
-11.89	8.2	7.6	442
-12.76	8.2	7.7	476
-13.60	8.2	7.8	542
-13.73	8.2	7.8	598

Depth Avg 8.3 7.1 250



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

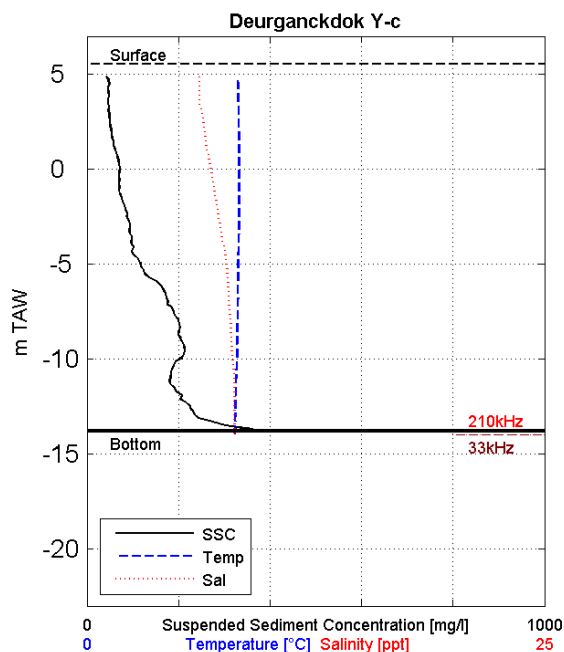
Sourcefile(s):

4161Yc\_ctd.sil

4176Yc\_ctd.sil

Location:

Deurganckdok

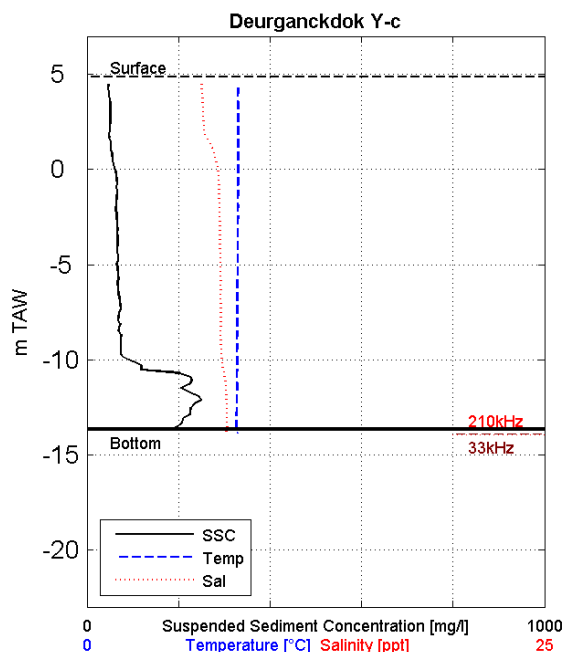


## Siltprofiler

Date & Time [MET]: 12/3/2008 19:53  
 Time after/before HT [MET]: 1:33  
 Coordinates [UTM-ED50] Easting: 588704  
 Coordinates [UTM-ED50] Northing: 5684445  
 Water-Bottom Interface Siltpr. [m TAW]: -13.78  
 Waterdepth 210 kHz Echo [m TAW]: -13.99  
 Waterdepth 33 kHz Echo [m TAW]: -13.97  
 Surface Elevation [m TAW]: 5.51

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.97	8.1	6.1	24
4.74	8.2	6.1	47
4.32	8.3	6.1	46
3.54	8.3	6.1	44
2.54	8.2	6.3	48
1.54	8.3	6.5	55
0.46	8.3	6.7	70
-0.54	8.3	6.9	72
-1.45	8.3	7.0	74
-2.38	8.3	7.2	88
-3.21	8.2	7.3	94
-4.17	8.3	7.5	98
-5.15	8.3	7.6	115
-6.08	8.2	7.7	161
-6.84	8.2	7.7	175
-7.66	8.2	7.8	188
-8.56	8.2	7.9	198
-9.63	8.2	7.9	214
-10.64	8.2	8.0	184
-11.52	8.1	8.1	192
-12.34	8.1	8.1	216
-13.46	8.1	8.1	291
-13.78	8.0	8.1	408

Depth Avg 8.2 7.3 126

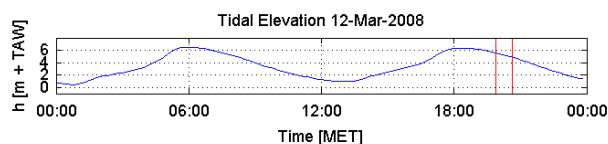


## Siltprofiler

Date & Time [MET]: 12/3/2008 20:37  
 Time after/before HT [MET]: 2:17  
 Coordinates [UTM-ED50] Easting: 588701  
 Coordinates [UTM-ED50] Northing: 5684472  
 Water-Bottom Interface Siltpr. [m TAW]: -13.66  
 Waterdepth 210 kHz Echo [m TAW]: -13.94  
 Waterdepth 33 kHz Echo [m TAW]: -13.91  
 Surface Elevation [m TAW]: 4.85

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.57	8.2	6.2	46
3.95	8.2	6.3	49
3.24	8.3	6.3	51
2.38	8.2	6.4	50
1.52	8.3	6.6	49
0.64	8.3	7.0	55
-0.21	8.3	7.2	64
-1.11	8.3	7.2	63
-1.97	8.2	7.2	62
-2.94	8.2	7.2	64
-3.98	8.2	7.3	63
-4.80	8.2	7.3	66
-5.70	8.2	7.3	73
-6.55	8.2	7.3	70
-7.47	8.2	7.3	72
-8.39	8.2	7.3	69
-9.37	8.2	7.3	72
-10.23	8.2	7.4	113
-11.06	8.1	7.5	235
-11.64	8.2	7.6	238
-12.57	8.1	7.6	227
-13.45	8.2	7.6	202
-13.66	8.1	7.6	202

Depth Avg 8.2 7.1 90



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.9 Location Yd**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

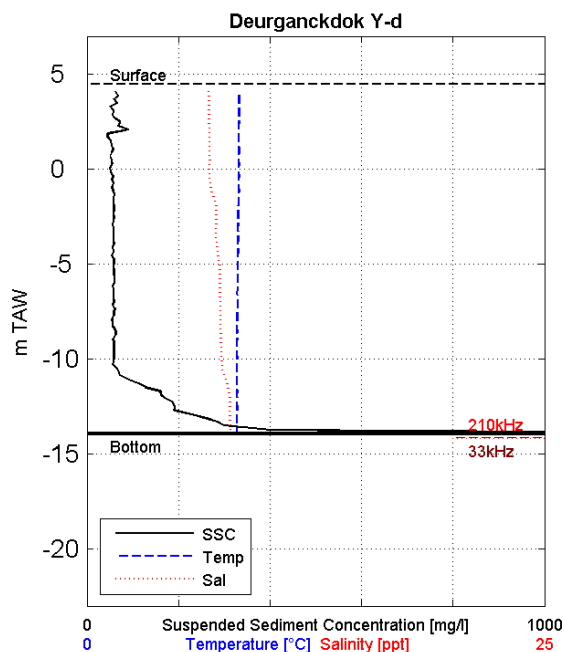
Sourcefile(s):

4007Yd\_ctd.sil

4022Yd\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 08:35

Time after/before HT [MET]: 2:35

Coordinates [UTM-ED50] Easting: 588733

Coordinates [UTM-ED50] Northing: 5684518

Water-Bottom Interface Siltpr. [m TAW]: -13.93

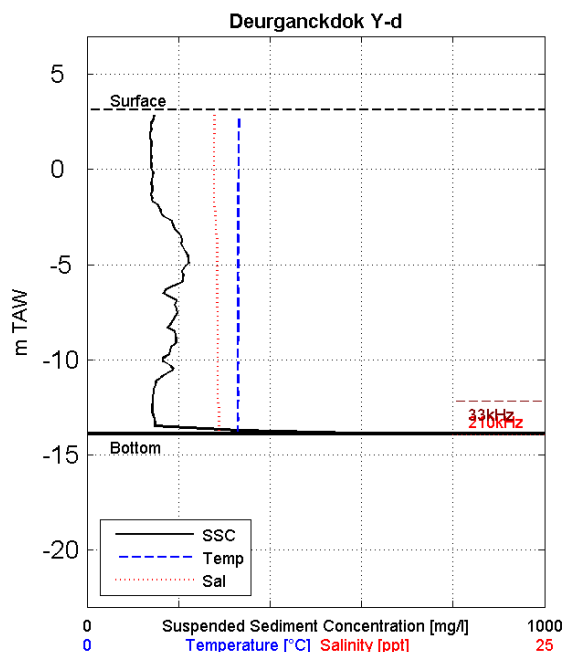
Waterdepth 210 kHz Echo [m TAW]: -14.16

Waterdepth 33 kHz Echo [m TAW]: -14.13

Surface Elevation [m TAW]: 4.47

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.18	8.3	6.6	59
3.70	8.3	6.7	43
2.87	8.3	6.7	43
2.00	8.2	6.7	75
0.91	8.3	6.7	50
-0.15	8.3	6.6	54
-1.13	8.3	6.8	56
-2.05	8.2	7.1	48
-2.80	8.3	7.0	57
-3.54	8.3	7.0	60
-4.36	8.2	7.1	56
-5.19	8.3	7.3	61
-5.95	8.2	7.3	57
-7.11	8.2	7.3	55
-8.32	8.2	7.3	56
-9.12	8.2	7.3	61
-10.08	8.2	7.3	62
-10.95	8.1	7.5	82
-11.72	8.1	7.8	163
-12.58	8.2	7.8	194
-13.41	8.1	7.8	315
-13.87	8.2	7.8	333
-13.93	8.2	7.8	1020

Depth Avg 8.2 7.1 84



**Siltprofiler**

Date & Time [MET]: 12/3/2008 09:42

Time after/before HT [MET]: 3:42

Coordinates [UTM-ED50] Easting: 588738

Coordinates [UTM-ED50] Northing: 5684502

Water-Bottom Interface Siltpr. [m TAW]: -13.91

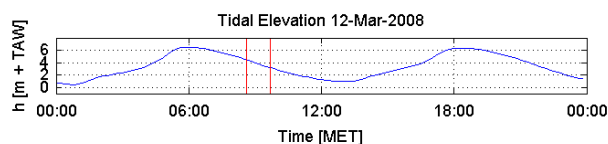
Waterdepth 210 kHz Echo [m TAW]: -13.96

Waterdepth 33 kHz Echo [m TAW]: -12.19

Surface Elevation [m TAW]: 3.13

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.84	8.3	7.0	146
2.05	8.3	7.0	139
1.23	8.3	6.9	139
0.39	8.2	6.9	139
-0.49	8.3	6.9	135
-1.27	8.2	6.9	141
-2.01	8.2	7.0	159
-2.80	8.2	7.0	191
-3.63	8.3	7.1	208
-4.35	8.2	7.1	217
-5.18	8.3	7.1	216
-5.99	8.2	7.1	208
-6.91	8.2	7.1	191
-7.80	8.3	7.1	184
-8.69	8.2	7.1	192
-9.56	8.2	7.2	178
-10.49	8.3	7.2	188
-11.37	8.3	7.1	148
-12.10	8.2	7.1	144
-12.93	8.2	7.2	144
-13.72	8.2	7.2	150
-13.87	8.2	7.2	822
-13.91	8.2	7.2	575

Depth Avg 8.2 7.1 172



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

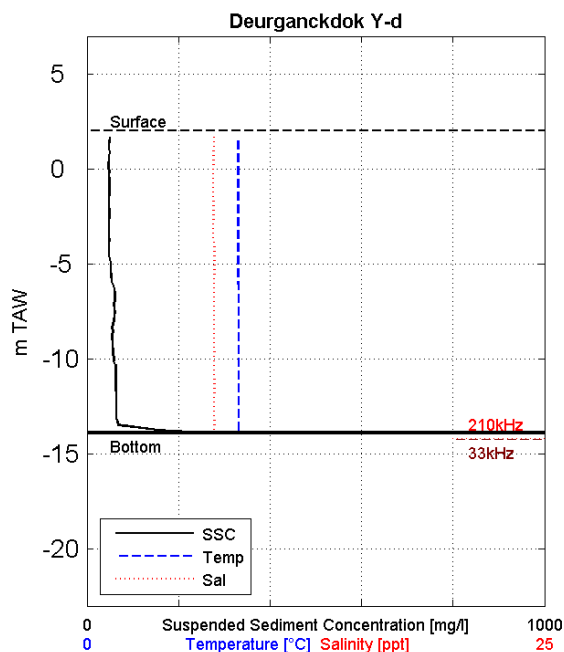
Sourcefile(s):

4036Yd\_ctd.sil

4053Yd\_ctd.sil

Location:

Deurganckdok

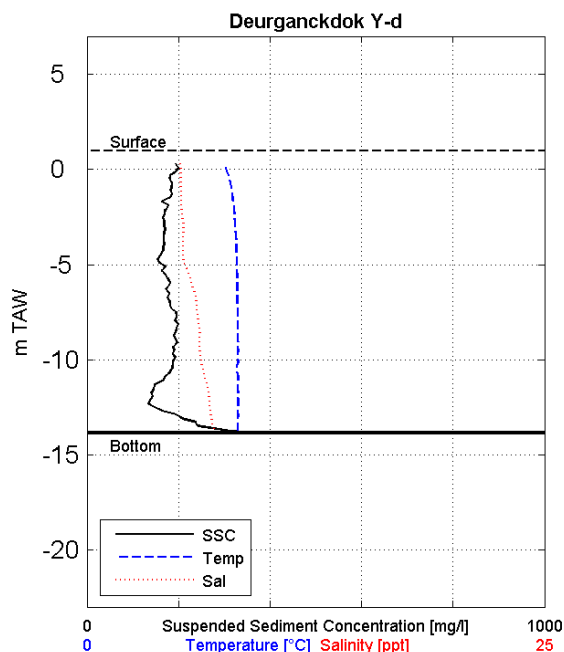


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:52  
 Time after/before HT [MET]: 4:52  
 Coordinates [UTM-ED50] Easting: 588751  
 Coordinates [UTM-ED50] Northing: 5684479  
 Water-Bottom Interface Siltpr. [m TAW]: -13.89  
 Waterdepth 210 kHz Echo [m TAW]: -14.18  
 Waterdepth 33 kHz Echo [m TAW]: -14.23  
 Surface Elevation [m TAW]: 2.01

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.73	8.2	6.9	49
1.01	8.2	6.9	49
0.23	8.3	6.9	48
-0.59	8.3	6.8	47
-1.39	8.3	6.9	48
-2.13	8.3	6.9	47
-3.00	8.3	6.9	47
-3.85	8.3	6.9	48
-4.71	8.3	7.0	50
-5.54	8.2	6.9	55
-6.43	8.3	6.9	57
-7.29	8.3	6.9	59
-8.14	8.2	6.9	55
-8.98	8.2	6.9	58
-9.74	8.2	6.9	56
-10.54	8.3	6.9	63
-11.25	8.3	6.9	64
-12.00	8.3	6.9	60
-12.76	8.3	6.9	66
-13.57	8.3	6.9	68
-13.75	8.2	6.9	66
-13.80	8.2	6.9	69
-13.89	8.3	6.9	379

Depth Avg    8.3    6.9    56

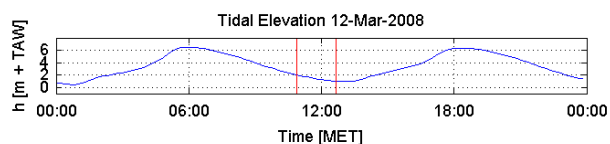


## Siltprofiler

Date & Time [MET]: 12/3/2008 12:40  
 Time after/before HT [MET]: 6:40  
 Coordinates [UTM-ED50] Easting: 588761  
 Coordinates [UTM-ED50] Northing: 5684513  
 Water-Bottom Interface Siltpr. [m TAW]: -13.84  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 0.96

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.35	7.5	5.1	195
-0.36	7.7	5.1	180
-1.22	8.0	5.1	176
-2.07	8.0	5.1	169
-2.98	8.1	5.3	177
-3.69	8.1	5.2	166
-4.42	8.2	5.2	172
-5.33	8.2	5.5	169
-6.17	8.2	5.8	175
-6.95	8.3	6.0	186
-7.66	8.2	6.0	199
-8.35	8.3	6.1	192
-9.13	8.3	6.1	205
-9.88	8.2	6.2	201
-10.62	8.2	6.4	173
-11.32	8.2	6.5	147
-12.02	8.2	6.7	137
-12.64	8.2	6.7	147
-13.28	8.2	6.8	255
-13.72	8.2	7.0	385
-13.77	8.2	7.0	211
-13.83	8.2	7.0	223
-13.84	8.2	7.0	477

Depth Avg    8.1    5.8    180



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

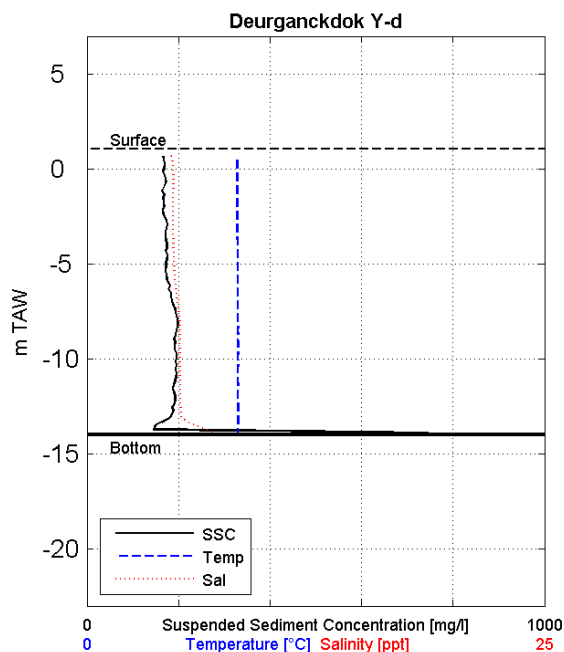
Sourcefile(s):

4068Yd\_ctd.sil

4083Yd\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:28

Time after/before HT [MET]: -4:51

Coordinates [UTM-ED50] Easting: 588771

Coordinates [UTM-ED50] Northing: 5684516

Water-Bottom Interface Siltpr. [m TAW]: -13.97

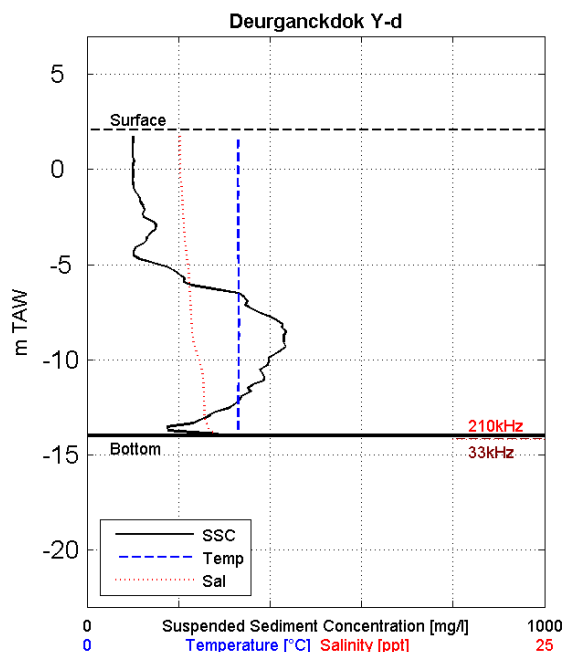
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 1.05

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.76	8.2	4.5	161
0.28	8.2	4.7	166
-0.45	8.2	4.7	170
-1.01	8.2	4.7	166
-1.64	8.2	4.7	166
-2.32	8.2	4.7	164
-3.15	8.2	4.7	171
-3.81	8.2	4.7	174
-4.48	8.2	4.7	175
-5.24	8.2	4.8	172
-6.07	8.2	4.8	181
-6.80	8.2	4.9	189
-7.49	8.3	5.0	193
-8.25	8.2	5.1	199
-9.22	8.2	5.0	193
-10.16	8.2	5.1	193
-10.95	8.2	5.0	194
-11.73	8.2	5.1	189
-12.57	8.2	5.1	182
-13.44	8.2	5.8	149
-13.88	8.3	6.9	1368
-13.94	8.2	7.1	390
-13.97	8.2	7.1	957

Depth Avg 8.2 4.9 183



**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:33

Time after/before HT [MET]: -3:46

Coordinates [UTM-ED50] Easting: 588743

Coordinates [UTM-ED50] Northing: 5684497

Water-Bottom Interface Siltpr. [m TAW]: -13.99

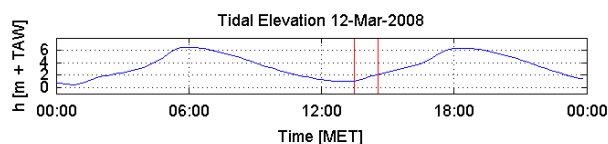
Waterdepth 210 kHz Echo [m TAW]: -14.18

Waterdepth 33 kHz Echo [m TAW]: -14.15

Surface Elevation [m TAW]: 2.09

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.80	8.2	5.0	100
1.41	8.2	5.0	100
0.83	8.3	5.0	101
0.05	8.3	5.1	101
-0.69	8.2	5.1	100
-1.57	8.2	5.2	118
-2.40	8.3	5.2	118
-3.18	8.3	5.3	146
-4.02	8.3	5.4	110
-4.85	8.3	5.5	125
-5.63	8.3	5.5	208
-6.32	8.3	5.6	316
-7.25	8.2	5.7	355
-8.14	8.3	5.7	422
-8.98	8.3	5.8	435
-9.82	8.3	6.0	397
-10.74	8.3	6.3	380
-11.54	8.2	6.4	362
-12.35	8.3	6.4	316
-13.11	8.3	6.5	256
-13.88	8.2	6.9	187
-13.97	8.2	7.0	839
-13.99	8.2	7.0	596

Depth Avg 8.3 5.6 236



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

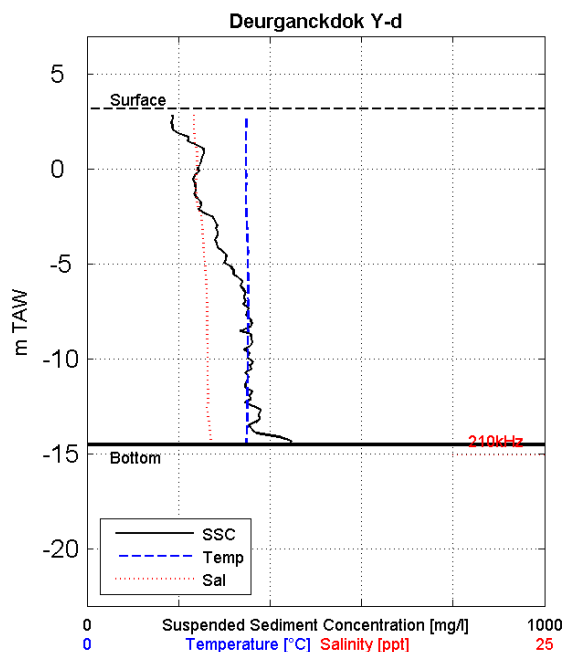
Sourcefile(s):

4099Yd\_ctd.sil

4114Yd\_ctd.sil

Location:

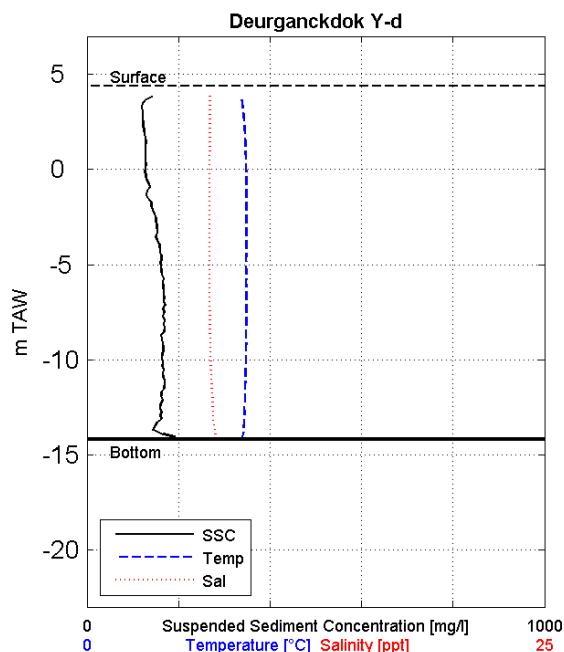
Deurganckdok



**Siltprofiler**  
Date & Time [MET]: 12/3/2008 15:49  
Time after/before HT [MET]: -2:30  
Coordinates [UTM-ED50] Easting: 588780  
Coordinates [UTM-ED50] Northing: 5684534  
Water-Bottom Interface Siltpr. [m TAW]: -14.50  
Waterdepth 210 kHz Echo [m TAW]: -15.04  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 3.16

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.87	8.7	5.8	185
2.21	8.7	5.8	186
1.55	8.7	5.9	216
0.81	8.7	6.0	254
0.07	8.7	6.0	242
-0.75	8.7	5.9	237
-1.48	8.7	6.0	240
-2.33	8.7	6.2	261
-3.21	8.7	6.3	283
-4.04	8.8	6.3	286
-4.96	8.7	6.4	309
-5.88	8.8	6.5	341
-6.87	8.8	6.5	343
-7.77	8.8	6.5	338
-8.54	8.8	6.6	330
-9.34	8.8	6.6	353
-10.15	8.8	6.6	366
-10.96	8.8	6.6	349
-11.91	8.7	6.6	355
-12.86	8.7	6.6	365
-13.74	8.7	6.7	353
-14.37	8.7	6.8	461
-14.50	8.7	6.8	490

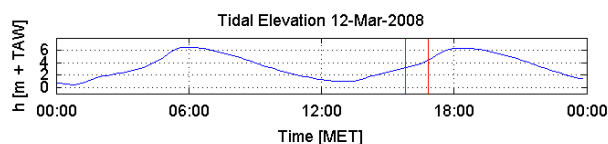
Depth Avg    8.7    6.3    305



**Siltprofiler**  
Date & Time [MET]: 12/3/2008 16:49  
Time after/before HT [MET]: -1:30  
Coordinates [UTM-ED50] Easting: 588755  
Coordinates [UTM-ED50] Northing: 5684512  
Water-Bottom Interface Siltpr. [m TAW]: -14.18  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 4.37

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.88	8.4	6.7	132
2.93	8.5	6.7	122
2.05	8.6	6.7	123
1.24	8.6	6.7	126
0.49	8.7	6.7	127
-0.19	8.7	6.7	129
-0.94	8.7	6.7	137
-1.71	8.7	6.7	139
-2.78	8.7	6.7	149
-3.84	8.7	6.7	158
-4.81	8.7	6.7	158
-5.73	8.7	6.7	166
-6.71	8.6	6.7	171
-7.60	8.7	6.7	168
-8.42	8.7	6.7	171
-9.48	8.7	6.7	165
-10.43	8.6	6.7	165
-11.32	8.6	6.8	170
-12.28	8.6	6.9	161
-13.19	8.6	6.9	163
-14.01	8.4	7.0	152
-14.10	8.5	7.0	326
-14.18	8.5	7.0	186

Depth Avg    8.6    6.7    150



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

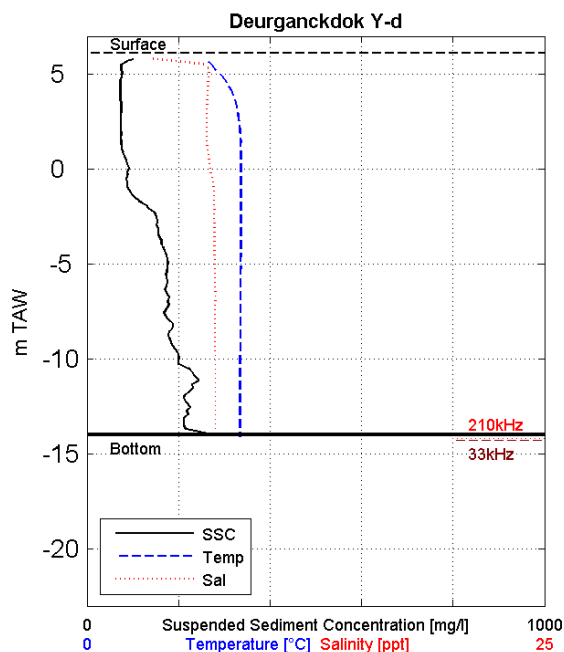
Sourcefile(s):

4129Yd\_ctd.sil

4145Yd\_ctd.sil

Location:

Deurganckdok

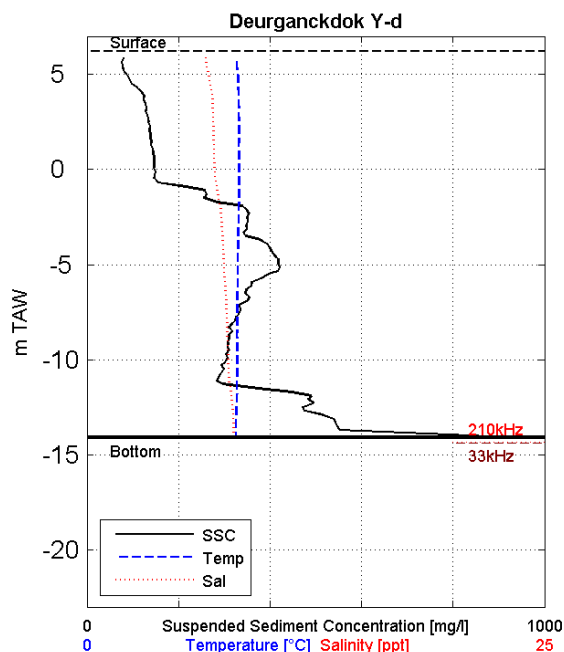


## Siltprofiler

Date & Time [MET]: 12/3/2008 17:45  
 Time after/before HT [MET]: -0:34  
 Coordinates [UTM-ED50] Easting: 588737  
 Coordinates [UTM-ED50] Northing: 5684472  
 Water-Bottom Interface Siltpr. [m TAW]: -13.99  
 Waterdepth 210 kHz Echo [m TAW]: -14.17  
 Waterdepth 33 kHz Echo [m TAW]: -14.27  
 Surface Elevation [m TAW]: 6.11

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.82	6.4	3.6	101
4.92	7.4	6.6	79
4.08	7.9	6.6	72
3.38	8.2	6.5	73
2.46	8.3	6.5	70
1.44	8.4	6.5	73
0.26	8.4	6.7	89
-0.87	8.4	6.9	88
-1.82	8.4	7.0	127
-2.59	8.4	6.9	152
-3.51	8.4	7.0	157
-4.62	8.4	7.0	173
-5.76	8.4	7.0	173
-6.78	8.4	7.0	178
-7.72	8.4	7.0	170
-8.46	8.3	7.0	187
-9.49	8.4	7.0	202
-10.51	8.4	7.0	226
-11.56	8.4	7.0	227
-12.37	8.3	7.0	217
-13.08	8.3	7.0	212
-13.93	8.3	7.0	222
-13.99	8.4	7.0	2003

Depth Avg 8.2 6.8 146

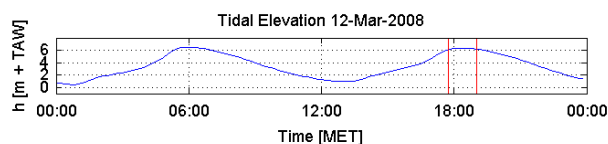


## Siltprofiler

Date & Time [MET]: 12/3/2008 19:00  
 Time after/before HT [MET]: 0:40  
 Coordinates [UTM-ED50] Easting: 588762  
 Coordinates [UTM-ED50] Northing: 5684538  
 Water-Bottom Interface Siltpr. [m TAW]: -14.11  
 Waterdepth 210 kHz Echo [m TAW]: -14.35  
 Waterdepth 33 kHz Echo [m TAW]: -14.37  
 Surface Elevation [m TAW]: 6.21

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.93	8.2	6.5	87
5.22	8.2	6.6	80
4.40	8.3	6.7	109
3.51	8.3	6.9	127
2.58	8.3	6.9	134
1.63	8.3	6.9	142
0.62	8.3	6.9	144
-0.45	8.3	7.0	147
-1.54	8.3	7.2	250
-2.57	8.2	7.3	353
-3.67	8.3	7.4	385
-4.69	8.2	7.5	421
-5.59	8.2	7.5	388
-6.61	8.3	7.6	353
-7.65	8.2	7.6	323
-8.75	8.2	7.7	310
-9.87	8.2	7.7	310
-10.90	8.2	7.7	285
-11.88	8.1	7.9	494
-12.87	8.1	8.0	526
-13.89	8.1	8.0	522
-14.07	8.1	8.0	574
-14.11	8.1	8.0	883

Depth Avg 8.2 7.3 286



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

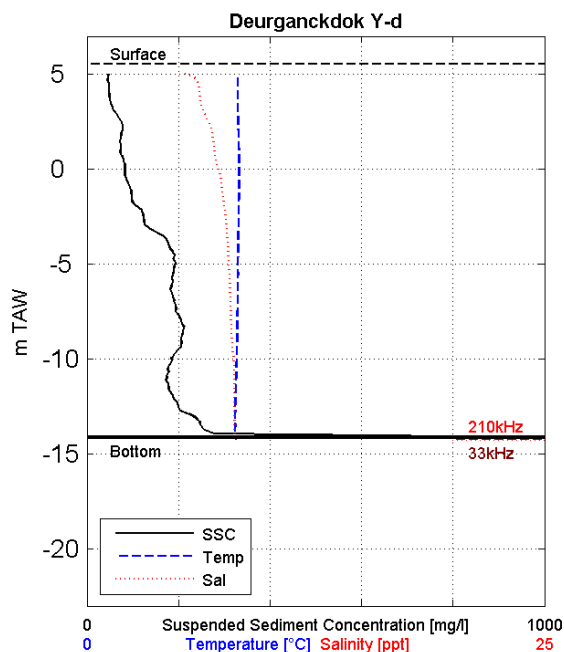
Sourcefile(s):

4160Yd\_ctd.sil

4175Yd\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:50

Time after/before HT [MET]: 1:30

Coordinates [UTM-ED50] Easting: 588763

Coordinates [UTM-ED50] Northing: 5684548

Water-Bottom Interface Siltpr. [m TAW]: -14.13

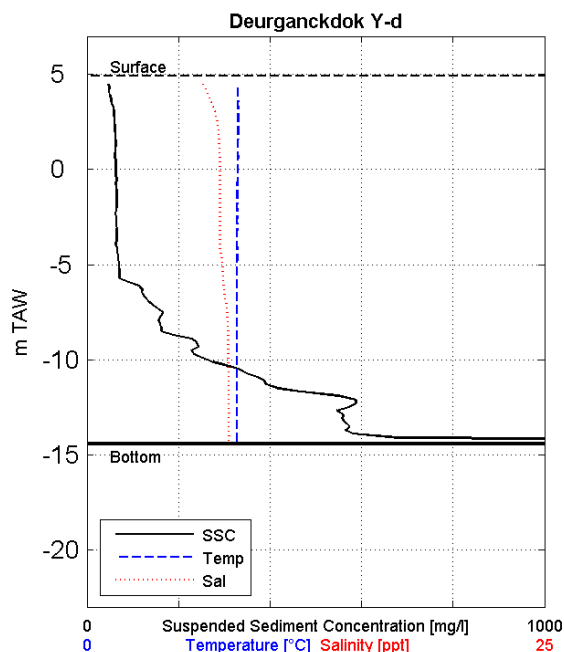
Waterdepth 210 kHz Echo [m TAW]: -14.27

Waterdepth 33 kHz Echo [m TAW]: -14.24

Surface Elevation [m TAW]: 5.55

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.02	8.2	5.4	46
4.61	8.2	6.1	45
3.86	8.2	6.2	52
2.80	8.2	6.5	65
1.75	8.3	6.8	72
0.72	8.3	7.0	74
-0.39	8.3	7.3	85
-1.60	8.3	7.4	96
-2.74	8.2	7.6	126
-3.80	8.3	7.7	179
-4.55	8.3	7.7	184
-5.35	8.2	7.7	190
-6.26	8.2	7.8	184
-7.27	8.3	7.8	192
-8.34	8.2	7.9	213
-9.19	8.2	7.9	207
-10.10	8.2	8.0	188
-11.26	8.1	8.1	177
-12.46	8.1	8.1	199
-13.61	8.1	8.1	252
-14.10	8.1	8.1	245
-14.13	8.1	8.1	263
-14.13	8.0	8.1	4531

Depth Avg 8.2 7.4 147



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:34

Time after/before HT [MET]: 2:14

Coordinates [UTM-ED50] Easting: 588761

Coordinates [UTM-ED50] Northing: 5684527

Water-Bottom Interface Siltpr. [m TAW]: -14.41

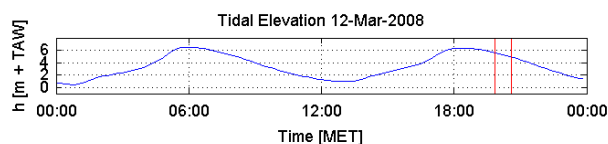
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 4.89

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.57	8.1	6.0	36
4.41	8.2	6.4	51
3.93	8.3	6.6	48
3.02	8.3	7.0	60
1.91	8.2	7.2	61
0.73	8.2	7.2	60
-0.48	8.2	7.3	66
-1.62	8.2	7.3	64
-2.65	8.2	7.3	63
-3.78	8.2	7.3	67
-4.96	8.1	7.4	72
-6.17	8.1	7.5	121
-7.19	8.1	7.6	143
-8.24	8.2	7.7	155
-9.27	8.2	7.7	243
-10.34	8.2	7.7	308
-11.34	8.1	7.7	408
-12.34	8.2	7.7	589
-13.40	8.2	7.7	550
-14.22	8.1	7.7	993
-14.28	8.2	7.7	539
-14.32	8.2	7.7	2359
-14.41	8.2	7.7	3279

Depth Avg 8.2 7.4 202



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.10 Location Ye**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

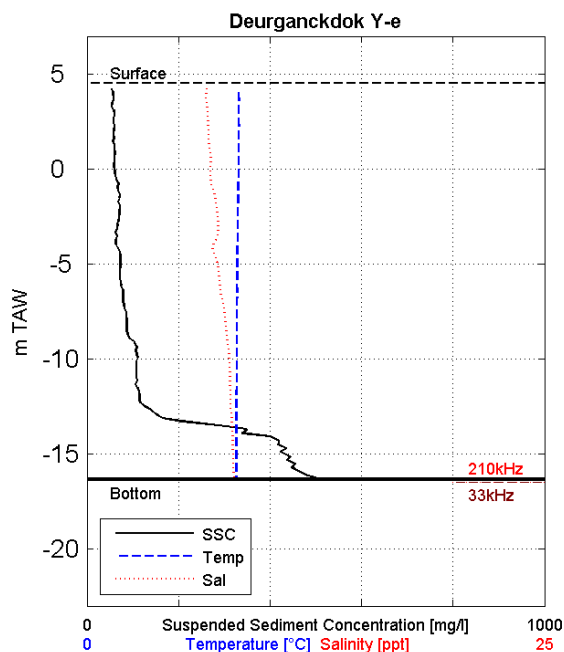
Sourcefile(s):

4006Ye\_ctd.sil

4021Ye\_ctd.sil

Location:

Deurganckdok

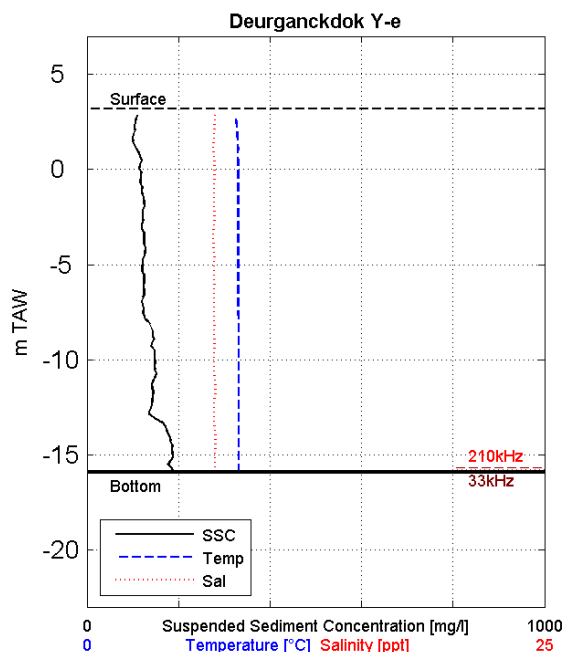


**Siltprofiler**

Date & Time [MET]: 12/3/2008 08:32  
 Time after/before HT [MET]: 2:32  
 Coordinates [UTM-ED50] Easting: 588806  
 Coordinates [UTM-ED50] Northing: 5684596  
 Water-Bottom Interface Siltpr. [m TAW]: -16.34  
 Waterdepth 210 kHz Echo [m TAW]: -16.48  
 Waterdepth 33 kHz Echo [m TAW]: -16.47  
 Surface Elevation [m TAW]: 4.54

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.25	8.2	6.6	23
3.75	8.3	6.5	56
2.99	8.3	6.6	59
1.96	8.3	6.6	55
0.98	8.3	6.7	59
-0.13	8.3	6.7	59
-1.09	8.2	6.9	67
-2.05	8.3	7.1	72
-3.13	8.2	7.2	66
-4.27	8.3	6.9	71
-5.53	8.2	7.2	73
-6.71	8.2	7.3	79
-7.79	8.2	7.5	88
-8.77	8.2	7.6	88
-9.82	8.2	7.8	109
-10.83	8.2	7.8	106
-11.77	8.2	7.8	118
-12.60	8.2	7.8	129
-13.53	8.2	7.9	299
-14.57	8.1	8.0	443
-15.62	8.2	8.0	436
-16.28	8.1	8.0	495
-16.34	8.2	8.0	496

Depth Avg    8.2    7.3    127

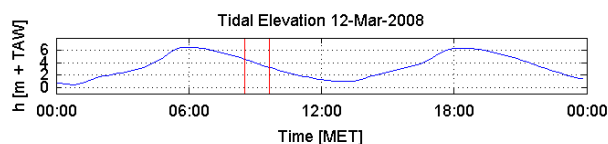


**Siltprofiler**

Date & Time [MET]: 12/3/2008 09:38  
 Time after/before HT [MET]: 3:38  
 Coordinates [UTM-ED50] Easting: 588797  
 Coordinates [UTM-ED50] Northing: 5684579  
 Water-Bottom Interface Siltpr. [m TAW]: -15.94  
 Waterdepth 210 kHz Echo [m TAW]: -15.76  
 Waterdepth 33 kHz Echo [m TAW]: -15.67  
 Surface Elevation [m TAW]: 3.20

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.92	8.1	7.0	108
1.99	8.2	6.9	104
1.06	8.2	6.9	113
0.16	8.3	7.0	113
-0.82	8.3	6.9	114
-1.80	8.2	6.9	126
-2.85	8.2	6.9	118
-3.71	8.2	6.9	126
-4.48	8.3	6.9	124
-5.50	8.2	6.9	126
-6.44	8.2	6.9	123
-7.28	8.3	6.9	123
-8.11	8.3	7.0	136
-8.86	8.3	7.0	146
-9.72	8.3	6.9	146
-10.76	8.2	7.0	152
-11.79	8.2	7.0	147
-12.54	8.3	6.9	140
-13.25	8.2	6.9	164
-14.07	8.3	7.0	180
-15.11	8.3	7.0	188
-15.84	8.3	7.0	187
-15.94	8.3	7.0	191

Depth Avg    8.2    6.9    134



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

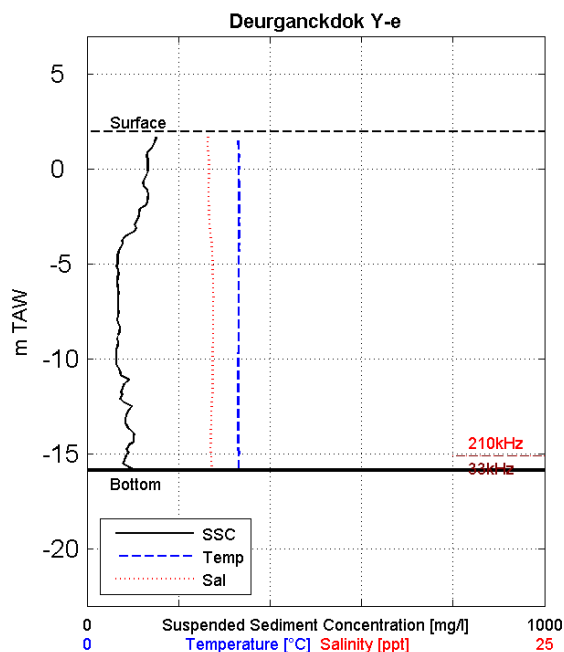
Sourcefile(s):

4037Ye\_ctd.sil

4052Ye\_ctd.sil

Location:

Deurganckdok

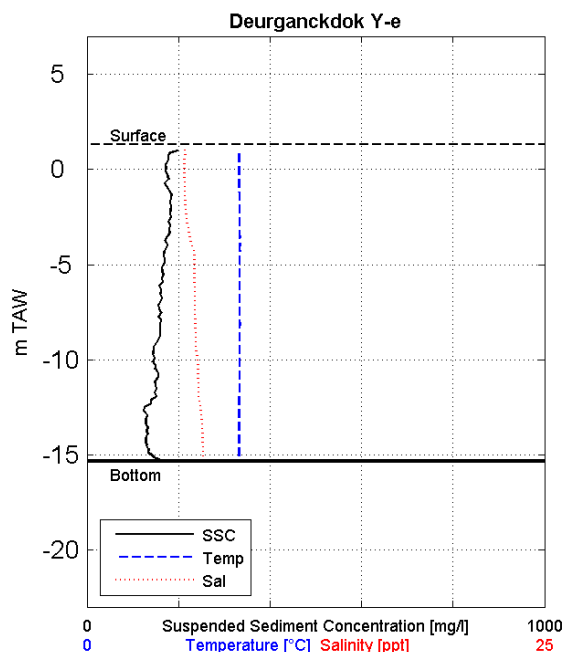


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:55  
Time after/before HT [MET]: 4:55  
Coordinates [UTM-ED50] Easting: 588780  
Coordinates [UTM-ED50] Northing: 5684579  
Water-Bottom Interface Siltpr. [m TAW]: -15.86  
Waterdepth 210 kHz Echo [m TAW]: -15.11  
Waterdepth 33 kHz Echo [m TAW]: -15.07  
Surface Elevation [m TAW]: 1.97

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.68	8.3	6.6	151
1.07	8.2	6.6	144
0.09	8.3	6.7	132
-0.90	8.3	6.6	122
-1.75	8.3	6.6	133
-2.62	8.3	6.7	103
-3.59	8.3	6.8	83
-4.69	8.3	6.8	66
-5.73	8.3	6.9	65
-6.75	8.2	6.9	66
-7.70	8.3	6.9	69
-8.59	8.3	6.9	69
-9.49	8.3	6.9	64
-10.45	8.2	6.9	65
-11.35	8.3	6.8	75
-12.19	8.3	6.8	72
-13.03	8.2	6.8	86
-13.89	8.3	6.8	101
-14.70	8.3	6.7	88
-15.64	8.3	6.8	97
-15.74	8.3	6.8	100
-15.79	8.3	6.8	91
-15.86	8.3	6.8	104

Depth Avg 8.3 6.8 91

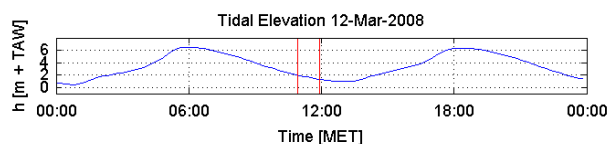


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:55  
Time after/before HT [MET]: 5:55  
Coordinates [UTM-ED50] Easting: 588770  
Coordinates [UTM-ED50] Northing: 5684592  
Water-Bottom Interface Siltpr. [m TAW]: -15.36  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 1.29

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.01	8.4	5.3	199
0.83	8.3	5.4	180
0.74	8.4	5.3	183
0.65	8.3	5.3	180
0.11	8.3	5.3	172
-0.71	8.3	5.3	168
-1.51	8.3	5.3	180
-2.30	8.3	5.4	180
-3.27	8.3	5.5	172
-4.17	8.3	5.8	166
-4.98	8.3	5.9	172
-6.04	8.3	5.9	158
-7.23	8.3	5.9	166
-8.36	8.4	5.9	163
-9.46	8.3	6.0	146
-10.54	8.3	6.1	142
-11.54	8.3	6.0	151
-12.46	8.3	6.2	134
-13.52	8.3	6.3	136
-14.44	8.3	6.3	131
-15.19	8.3	6.3	146
-15.31	8.3	6.3	153
-15.36	8.3	6.3	170

Depth Avg 8.3 5.8 159



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

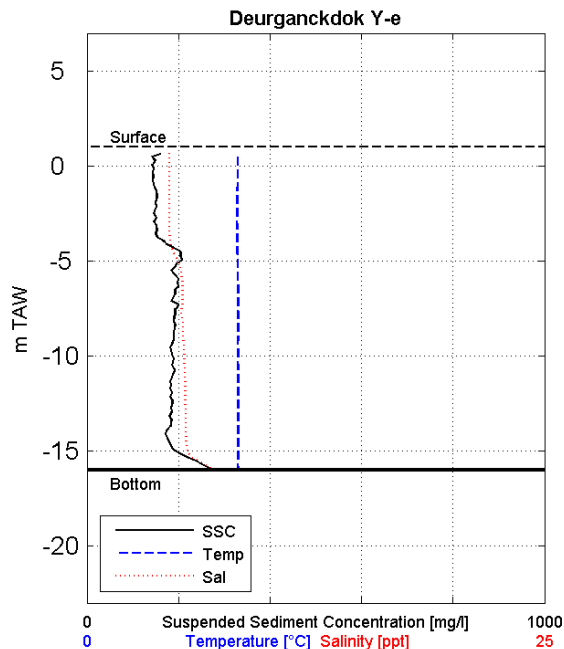
SiltProfiler & CTD-Diver

Sourcefile(s):

4067Ye\_ctd.sil  
4082Ye\_ctd.sil

Location:

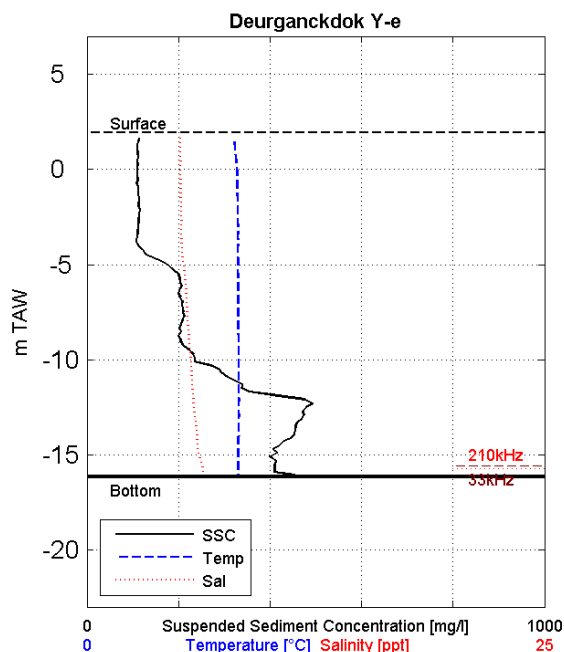
Deurganckdok



**Siltprofiler**  
Date & Time [MET]: 12/3/2008 13:24  
Time after/before HT [MET]: -4:55  
Coordinates [UTM-ED50] Easting: 588783  
Coordinates [UTM-ED50] Northing: 5684579  
Water-Bottom Interface Siltpr. [m TAW]: -16.02  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 1.02

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.73	8.3	4.5	180
0.13	8.3	4.5	148
-0.51	8.3	4.5	134
-1.13	8.2	4.5	143
-1.96	8.2	4.5	149
-2.75	8.2	4.5	148
-3.56	8.2	4.5	158
-4.24	8.2	4.6	177
-4.77	8.2	4.8	211
-5.43	8.2	5.1	180
-6.29	8.2	5.2	193
-7.09	8.2	5.2	192
-7.76	8.3	5.1	189
-8.53	8.3	5.2	188
-9.44	8.2	5.3	196
-10.37	8.2	5.3	189
-11.29	8.2	5.3	180
-12.05	8.2	5.4	184
-12.97	8.3	5.4	177
-14.00	8.2	5.4	176
-15.06	8.2	5.5	199
-15.92	8.2	6.8	275
-16.02	8.2	6.9	250

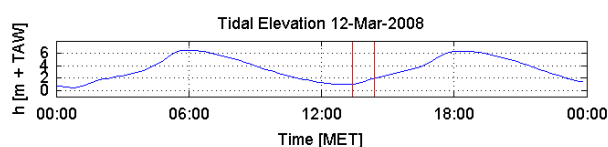
Depth Avg    8.2    5.1    179



**Siltprofiler**  
Date & Time [MET]: 12/3/2008 14:24  
Time after/before HT [MET]: -3:55  
Coordinates [UTM-ED50] Easting: 588789  
Coordinates [UTM-ED50] Northing: 5684599  
Water-Bottom Interface Siltpr. [m TAW]: -16.17  
Waterdepth 210 kHz Echo [m TAW]: -15.72  
Waterdepth 33 kHz Echo [m TAW]: -15.58  
Surface Elevation [m TAW]: 1.94

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.65	8.0	5.1	120
0.55	8.2	5.1	109
-0.11	8.2	5.1	110
-1.05	8.2	5.1	113
-1.79	8.2	5.1	113
-2.67	8.2	5.1	110
-3.47	8.2	5.1	110
-4.45	8.2	5.2	126
-5.53	8.2	5.3	197
-6.53	8.2	5.4	203
-7.45	8.3	5.5	206
-8.33	8.3	5.5	202
-9.24	8.2	5.6	208
-10.17	8.2	5.7	248
-11.16	8.3	5.7	326
-12.08	8.3	5.8	476
-13.04	8.3	5.9	477
-13.95	8.3	6.0	452
-14.99	8.3	6.1	405
-16.01	8.2	6.3	669
-16.07	8.3	6.3	424
-16.13	8.2	6.3	439
-16.17	8.2	6.3	462

Depth Avg    8.2    5.5    237



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

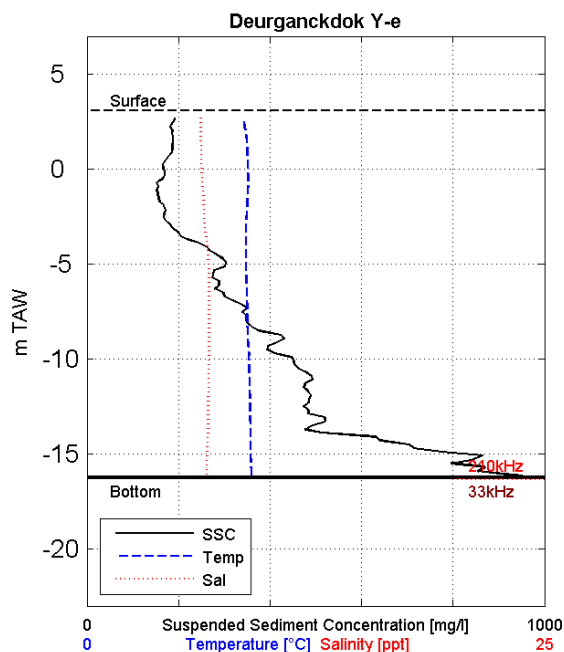
Sourcefile(s):

4098Ye\_ctd.sil

4113Ye\_ctd.sil

Location:

Deurganckdok

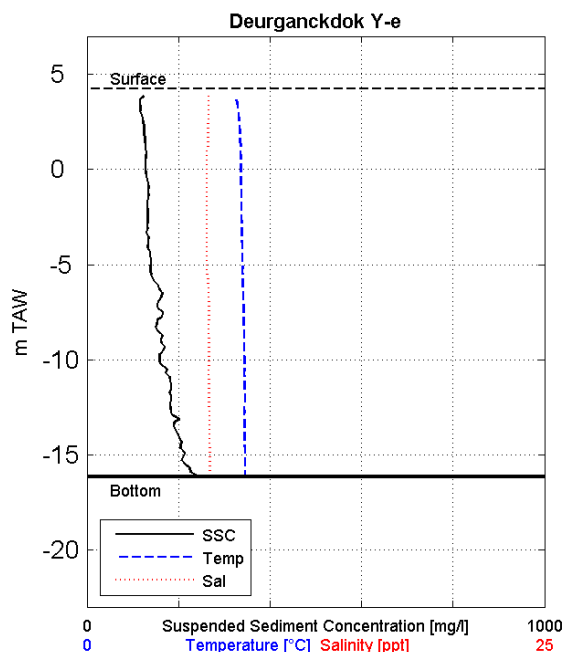


## Siltprofiler

Date & Time [MET]: 12/3/2008 15:45  
 Time after/before HT [MET]: -2:34  
 Coordinates [UTM-ED50] Easting: 588803  
 Coordinates [UTM-ED50] Northing: 5684584  
 Water-Bottom Interface Siltpr. [m TAW]: -16.25  
 Waterdepth 210 kHz Echo [m TAW]: -16.33  
 Waterdepth 33 kHz Echo [m TAW]: -16.29  
 Surface Elevation [m TAW]: 3.10

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.79	8.5	6.2	191
2.00	8.7	6.2	190
1.08	8.7	6.2	189
0.07	8.8	6.2	169
-1.01	8.8	6.3	152
-1.96	8.7	6.4	170
-2.87	8.7	6.4	180
-3.79	8.7	6.5	226
-4.75	8.6	6.6	301
-5.70	8.8	6.7	271
-6.72	8.7	6.7	306
-7.65	8.7	6.7	351
-8.60	8.8	6.7	408
-9.55	8.8	6.6	400
-10.48	8.9	6.6	458
-11.38	8.9	6.6	460
-12.31	8.9	6.6	485
-13.36	8.9	6.6	428
-14.38	8.9	6.6	566
-15.42	9.0	6.5	827
-16.15	8.9	6.5	961
-16.22	9.0	6.5	966
-16.25	9.0	6.5	949

Depth Avg    8.8    6.5    360

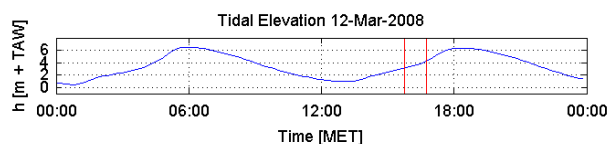


## Siltprofiler

Date & Time [MET]: 12/3/2008 16:45  
 Time after/before HT [MET]: -1:34  
 Coordinates [UTM-ED50] Easting: 588807  
 Coordinates [UTM-ED50] Northing: 5684592  
 Water-Bottom Interface Siltpr. [m TAW]: -16.17  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 4.26

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.97	8.2	6.6	137
3.02	8.3	6.6	115
2.02	8.4	6.6	124
1.09	8.4	6.6	128
0.11	8.4	6.6	129
-0.88	8.4	6.6	134
-1.97	8.4	6.5	130
-2.92	8.4	6.6	130
-3.85	8.5	6.6	133
-4.74	8.4	6.6	136
-5.70	8.5	6.6	142
-6.65	8.5	6.6	164
-7.63	8.6	6.7	173
-8.56	8.6	6.6	152
-9.47	8.6	6.7	168
-10.40	8.6	6.6	170
-11.30	8.6	6.7	184
-12.38	8.6	6.7	182
-13.53	8.6	6.7	190
-14.59	8.6	6.7	199
-15.66	8.7	6.7	221
-16.10	8.7	6.7	242
-16.17	8.6	6.7	242

Depth Avg    8.5    6.6    154



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

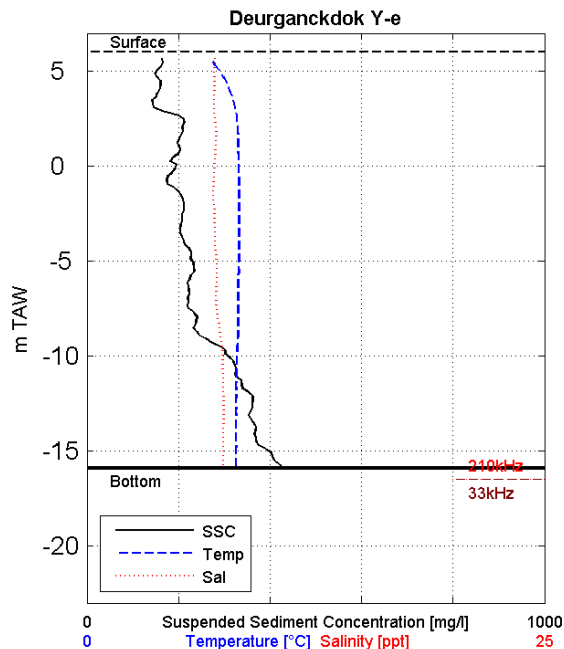
SiltProfiler & CTD-Diver

Sourcefile(s):

4128Ye\_ctd.sil  
4144Ye\_ctd.sil

Location:

Deurganckdok

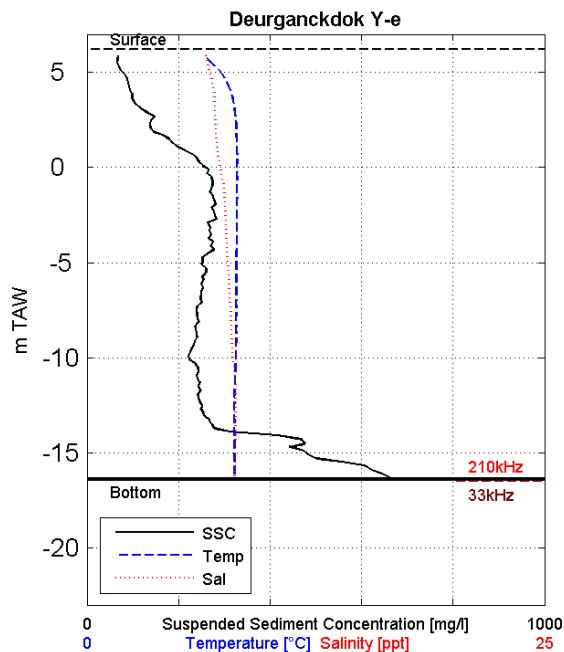


**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:40  
Time after/before HT [MET]: -0:39  
Coordinates [UTM-ED50] Easting: 588807  
Coordinates [UTM-ED50] Northing: 5684592  
Water-Bottom Interface Siltpr. [m TAW]: -15.90  
Waterdepth 210 kHz Echo [m TAW]: -16.48  
Waterdepth 33 kHz Echo [m TAW]: -16.50  
Surface Elevation [m TAW]: 6.03

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.74	6.7	7.0	166
4.53	7.6	6.9	163
3.32	8.0	6.9	143
2.23	8.2	7.0	211
1.21	8.3	7.0	198
-0.08	8.3	6.9	194
-1.37	8.3	6.9	200
-2.46	8.3	7.0	206
-3.52	8.3	7.0	208
-4.72	8.3	7.0	224
-5.80	8.3	7.1	221
-6.82	8.3	7.0	224
-7.90	8.3	7.1	242
-8.96	8.2	7.3	242
-10.03	8.2	7.4	302
-10.98	8.1	7.4	313
-11.89	8.2	7.4	350
-12.97	8.1	7.4	358
-13.99	8.1	7.4	363
-15.01	8.2	7.4	392
-15.76	8.1	7.4	414
-15.82	8.1	7.4	422
-15.90	8.2	7.4	439

Depth Avg 8.1 7.1 246

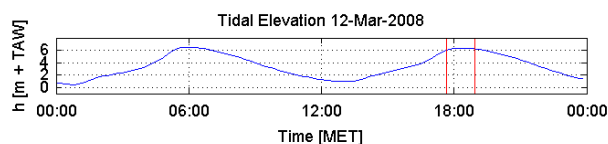


**Siltprofiler**

Date & Time [MET]: 12/3/2008 18:56  
Time after/before HT [MET]: 0:36  
Coordinates [UTM-ED50] Easting: 588812  
Coordinates [UTM-ED50] Northing: 5684610  
Water-Bottom Interface Siltpr. [m TAW]: -16.38  
Waterdepth 210 kHz Echo [m TAW]: -16.44  
Waterdepth 33 kHz Echo [m TAW]: -16.50  
Surface Elevation [m TAW]: 6.23

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.95	6.3	6.2	68
4.99	7.2	6.7	75
4.08	7.8	6.9	92
3.12	8.0	7.0	119
1.96	8.2	7.0	142
0.77	8.3	7.1	221
-0.45	8.2	7.4	265
-1.58	8.2	7.5	278
-2.68	8.1	7.5	294
-3.85	8.2	7.6	272
-5.03	8.1	7.7	246
-6.02	8.2	7.7	250
-7.08	8.1	7.8	254
-8.18	8.1	7.9	242
-9.38	8.1	7.9	234
-10.52	8.1	8.0	238
-11.47	8.1	8.1	234
-12.46	8.0	8.1	254
-13.44	8.0	8.1	265
-14.50	8.0	8.1	473
-15.41	8.1	8.1	538
-16.37	8.1	8.0	676
-16.38	8.1	8.0	695

Depth Avg 8.0 7.6 249



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

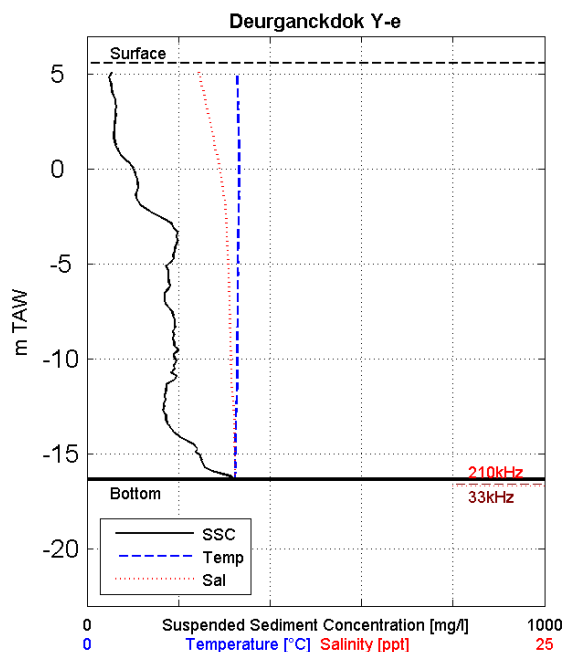
Sourcefile(s):

4159Ye\_ctd.sil

4174Ye\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:48

Time after/before HT [MET]: 1:28

Coordinates [UTM-ED50] Easting: 588808

Coordinates [UTM-ED50] Northing: 5684611

Water-Bottom Interface Siltpr. [m TAW]: -16.36

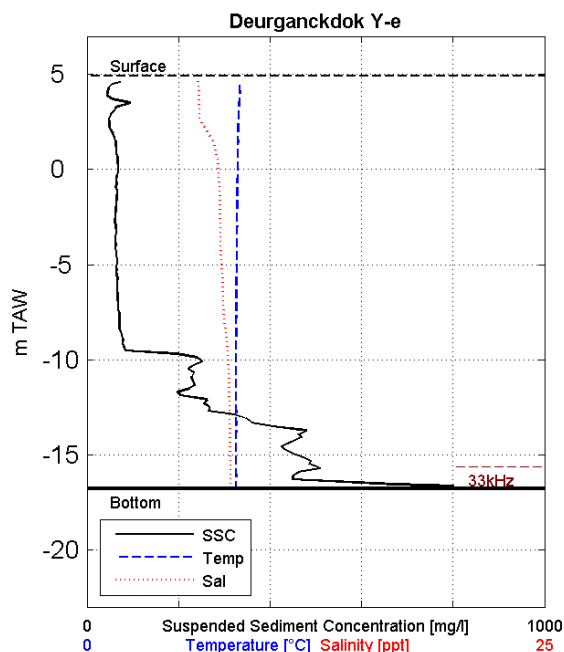
Waterdepth 210 kHz Echo [m TAW]: -16.66

Waterdepth 33 kHz Echo [m TAW]: -16.56

Surface Elevation [m TAW]: 5.59

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.19	8.2	6.1	79
4.78	8.2	6.2	49
4.20	8.3	6.3	53
3.18	8.3	6.5	60
1.98	8.3	6.8	60
0.62	8.3	7.1	77
-0.87	8.3	7.4	112
-2.32	8.3	7.6	141
-3.68	8.3	7.6	198
-4.85	8.2	7.7	189
-5.89	8.3	7.8	184
-6.99	8.2	7.8	173
-8.14	8.2	7.8	199
-9.27	8.2	7.8	181
-10.36	8.2	7.8	193
-11.47	8.2	7.9	169
-12.65	8.1	8.0	173
-14.05	8.1	8.1	198
-15.16	8.1	8.1	250
-16.13	8.0	8.1	311
-16.21	8.1	8.1	320
-16.27	8.1	8.1	323
-16.36	8.1	8.1	302

Depth Avg 8.2 7.5 151



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:32

Time after/before HT [MET]: 2:12

Coordinates [UTM-ED50] Easting: 588809

Coordinates [UTM-ED50] Northing: 5684611

Water-Bottom Interface Siltpr. [m TAW]: -16.78

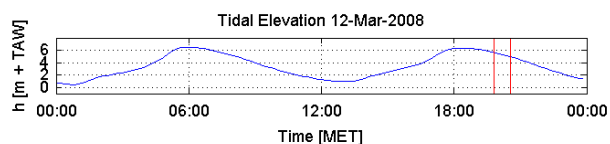
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: -15.64

Surface Elevation [m TAW]: 4.93

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.62	8.3	6.0	75
3.48	8.2	6.1	89
2.37	8.3	6.3	49
1.41	8.2	6.9	62
0.15	8.2	7.2	64
-1.58	8.2	7.3	66
-2.89	8.2	7.3	63
-4.20	8.2	7.3	60
-5.73	8.2	7.4	66
-7.26	8.1	7.4	68
-8.64	8.1	7.6	73
-9.97	8.1	7.7	279
-11.31	8.2	7.7	242
-12.77	8.1	7.8	259
-14.14	8.1	7.8	473
-15.36	8.1	7.8	511
-16.52	8.1	7.8	450
-16.62	8.2	7.8	577
-16.64	8.1	7.8	1256
-16.66	8.1	7.8	1250
-16.68	8.1	7.8	641
-16.73	8.1	7.8	1113
-16.78	8.2	7.8	1163

Depth Avg 8.2 7.3 159



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.11 Location Za**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

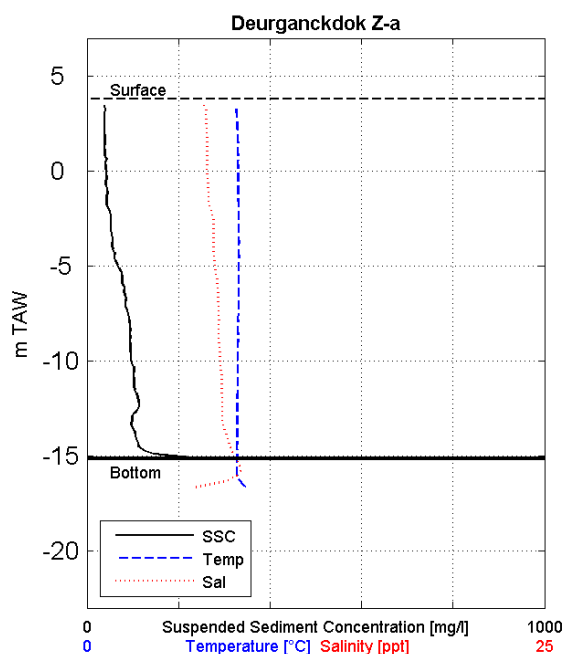
Sourcefile(s):

4015Za\_ctd.sil

4030Za\_ctd.sil

Location:

Deurganckdok

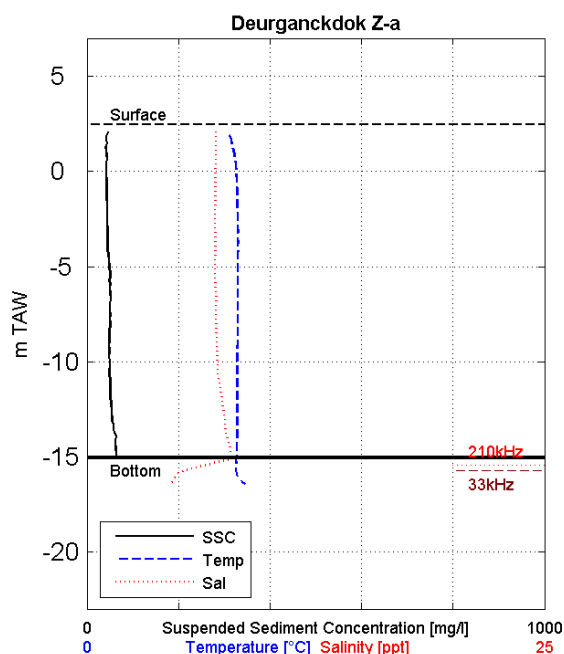


**Siltprofiler**

Date & Time [MET]: 12/3/2008 09:09  
 Time after/before HT [MET]: 3:09  
 Coordinates [UTM-ED50] Easting: 588655  
 Coordinates [UTM-ED50] Northing: 5684157  
 Water-Bottom Interface Siltpr. [m TAW]: -15.16  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 3.78

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.50	8.1	6.2	39
2.82	8.2	6.5	36
2.01	8.2	6.5	36
1.14	8.2	6.6	38
0.17	8.2	6.5	39
-0.72	8.2	6.6	43
-1.51	8.2	6.6	44
-2.24	8.3	6.8	49
-3.01	8.3	6.9	51
-4.10	8.3	6.9	59
-5.16	8.2	7.0	80
-6.04	8.3	7.1	79
-6.79	8.3	7.2	85
-7.52	8.2	7.2	90
-8.40	8.2	7.2	95
-9.39	8.3	7.2	94
-10.28	8.2	7.3	106
-11.07	8.2	7.4	104
-11.91	8.2	7.4	109
-12.85	8.2	7.4	96
-13.82	8.2	7.6	104
-14.78	8.1	8.0	131
-15.16	8.2	8.2	172

Depth Avg    8.2    7.0    73

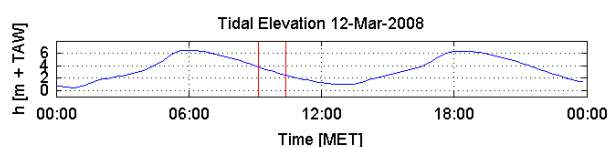


**Siltprofiler**

Date & Time [MET]: 12/3/2008 10:22  
 Time after/before HT [MET]: 4:22  
 Coordinates [UTM-ED50] Easting: 588667  
 Coordinates [UTM-ED50] Northing: 5684163  
 Water-Bottom Interface Siltpr. [m TAW]: -15.04  
 Waterdepth 210 kHz Echo [m TAW]: -15.43  
 Waterdepth 33 kHz Echo [m TAW]: -15.73  
 Surface Elevation [m TAW]: 2.48

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.18	7.6	7.0	45
1.65	7.9	7.0	43
0.92	8.0	7.0	41
0.26	8.1	7.0	41
-0.51	8.2	7.0	44
-1.42	8.2	7.0	40
-2.32	8.2	7.0	44
-3.10	8.3	7.0	45
-3.96	8.2	7.0	44
-4.86	8.3	7.0	48
-5.65	8.2	7.0	49
-6.48	8.2	7.0	50
-7.26	8.2	7.0	49
-8.05	8.2	7.1	50
-8.98	8.2	7.0	48
-9.90	8.2	7.1	49
-10.81	8.2	7.2	49
-11.70	8.2	7.3	54
-12.56	8.2	7.5	53
-13.28	8.2	7.5	60
-14.00	8.2	7.7	62
-14.82	8.2	7.8	63
-15.04	8.1	7.9	67

Depth Avg    8.2    7.1    48



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

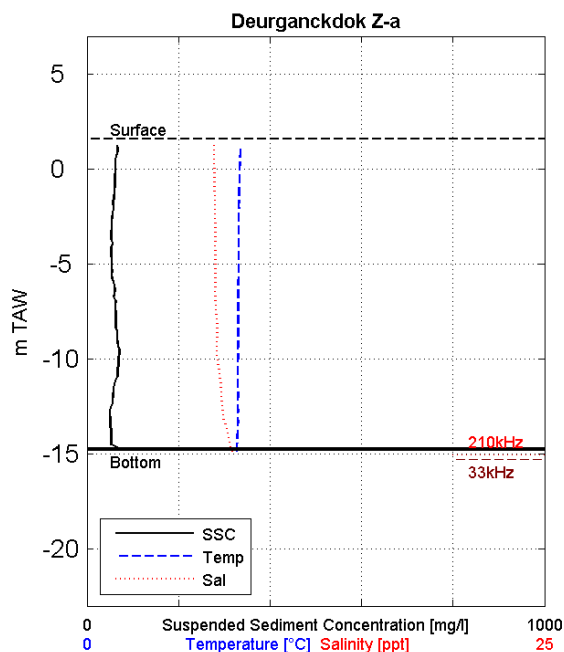
Sourcefile(s):

4045Za\_ctd.sil

4061Za\_ctd.sil

Location:

Deurganckdok

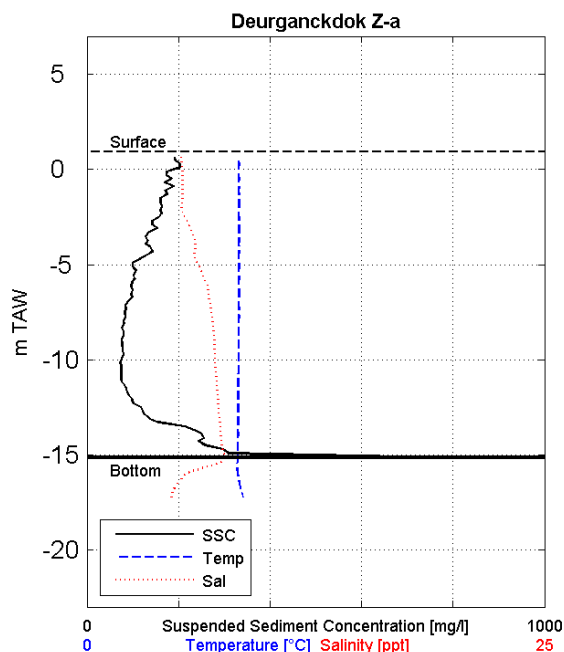


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:26  
 Time after/before HT [MET]: 5:26  
 Coordinates [UTM-ED50] Easting: 588689  
 Coordinates [UTM-ED50] Northing: 5684180  
 Water-Bottom Interface Siltpr. [m TAW]: -14.75  
 Waterdepth 210 kHz Echo [m TAW]: -15.06  
 Waterdepth 33 kHz Echo [m TAW]: -15.28  
 Surface Elevation [m TAW]: 1.59

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.29	8.4	6.9	65
0.63	8.3	6.9	60
-0.09	8.3	7.0	63
-0.82	8.3	7.0	62
-1.66	8.3	6.9	58
-2.46	8.3	7.0	52
-3.17	8.3	7.0	51
-3.82	8.3	7.0	53
-4.55	8.2	7.0	52
-5.35	8.2	7.0	54
-6.20	8.3	7.0	61
-7.01	8.2	7.0	63
-7.85	8.3	7.1	63
-8.62	8.2	7.1	71
-9.41	8.2	7.0	69
-10.11	8.3	7.1	69
-10.90	8.3	7.2	66
-11.79	8.3	7.3	55
-12.57	8.2	7.4	50
-13.24	8.2	7.5	48
-13.92	8.2	7.7	52
-14.63	8.1	7.8	54
-14.75	8.2	7.9	38

Depth Avg 8.3 7.1 59

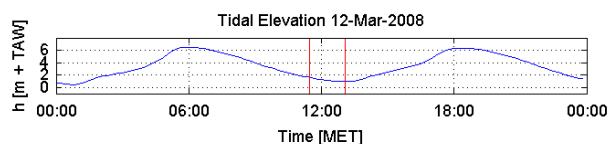


## Siltprofiler

Date & Time [MET]: 12/3/2008 13:03  
 Time after/before HT [MET]: -5:16  
 Coordinates [UTM-ED50] Easting: 588664  
 Coordinates [UTM-ED50] Northing: 5684185  
 Water-Bottom Interface Siltpr. [m TAW]: -15.13  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 0.94

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.64	8.3	5.1	191
0.12	8.3	5.2	290
-0.49	8.3	5.2	168
-1.22	8.3	5.2	207
-1.98	8.3	5.2	158
-2.83	8.3	5.5	130
-3.61	8.3	5.9	131
-4.27	8.3	5.9	144
-4.90	8.3	6.0	93
-5.62	8.3	6.4	104
-6.50	8.3	6.6	95
-7.26	8.3	6.7	89
-8.11	8.3	6.9	78
-8.94	8.2	6.9	76
-9.71	8.2	7.0	77
-10.39	8.2	7.0	90
-11.20	8.3	7.1	84
-11.98	8.3	7.1	97
-12.79	8.3	7.2	126
-13.56	8.3	7.3	202
-14.20	8.1	7.3	241
-14.90	8.2	7.5	309
-15.13	8.2	7.5	9975

Depth Avg 8.3 6.4 141



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

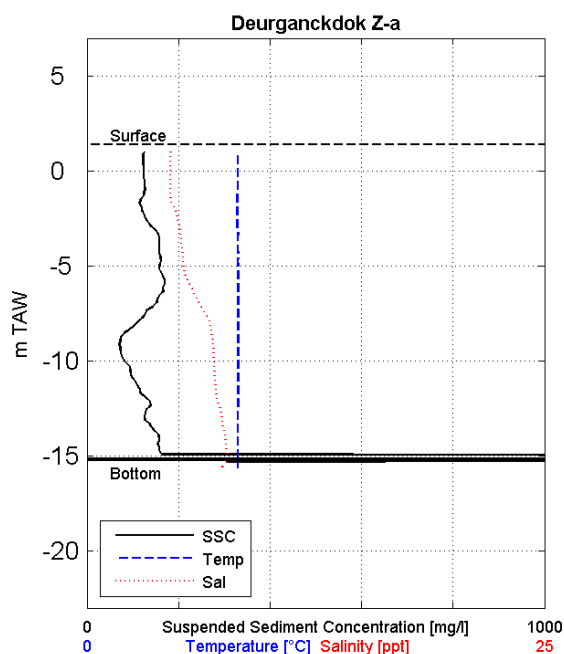
Sourcefile(s):

4076Za\_ctd.sil

4091Za\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:55

Time after/before HT [MET]: -4:24

Coordinates [UTM-ED50] Easting: 588666

Coordinates [UTM-ED50] Northing: 5684151

Water-Bottom Interface Siltpr. [m TAW]: -15.20

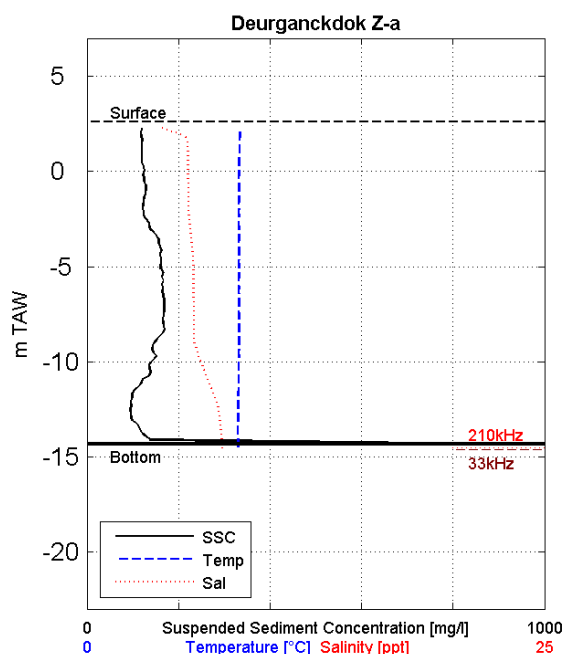
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 1.39

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.08	8.2	4.5	124
0.36	8.2	4.5	123
-0.46	8.2	4.5	124
-1.03	8.2	4.5	126
-1.78	8.2	4.7	116
-2.49	8.2	4.9	128
-3.15	8.2	5.1	152
-3.87	8.2	5.2	156
-4.52	8.2	5.2	164
-5.22	8.3	5.3	158
-5.94	8.3	5.6	170
-6.86	8.2	6.0	152
-7.77	8.3	6.6	117
-8.66	8.3	6.8	76
-9.50	8.3	6.9	74
-10.32	8.3	6.9	94
-11.20	8.3	7.0	107
-11.99	8.3	7.1	132
-12.76	8.3	7.3	124
-13.48	8.2	7.4	140
-14.26	8.2	7.6	156
-14.96	8.2	7.7	166
-15.20	8.2	7.7	27231

Depth Avg 8.2 6.0 222



**Siltprofiler**

Date & Time [MET]: 12/3/2008 15:09

Time after/before HT [MET]: -3:10

Coordinates [UTM-ED50] Easting: 588699

Coordinates [UTM-ED50] Northing: 5684193

Water-Bottom Interface Siltpr. [m TAW]: -14.32

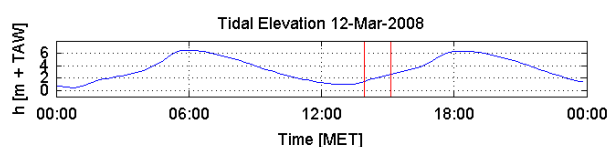
Waterdepth 210 kHz Echo [m TAW]: -14.55

Waterdepth 33 kHz Echo [m TAW]: -14.63

Surface Elevation [m TAW]: 2.61

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.33	8.3	4.0	121
1.61	8.4	5.5	125
0.94	8.3	5.5	119
0.27	8.3	5.5	129
-0.41	8.3	5.5	124
-1.06	8.3	5.5	128
-2.03	8.3	5.5	123
-2.91	8.3	5.6	132
-3.77	8.3	5.7	154
-4.68	8.3	5.8	160
-5.49	8.3	5.8	165
-6.25	8.3	5.8	163
-7.00	8.3	5.8	172
-7.71	8.3	5.8	170
-8.53	8.3	5.8	164
-9.37	8.3	6.0	142
-10.18	8.3	6.3	134
-10.85	8.3	6.6	123
-11.61	8.3	6.9	97
-12.30	8.2	7.1	98
-13.05	8.2	7.3	98
-14.03	8.2	7.3	132
-14.32	8.2	7.3	657

Depth Avg 8.3 6.0 139



Data Processed by:



In association with:



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

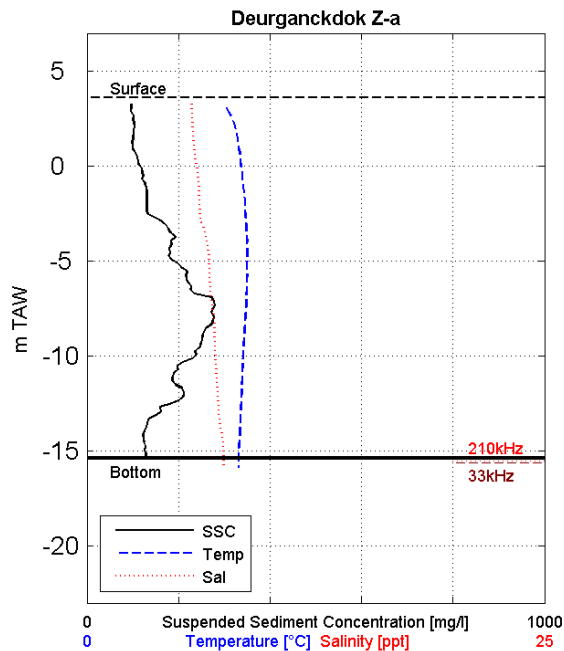
Sourcefile(s):

4107Za\_ctd.sil

4122Za\_ctd.sil

Location:

Deurganckdok

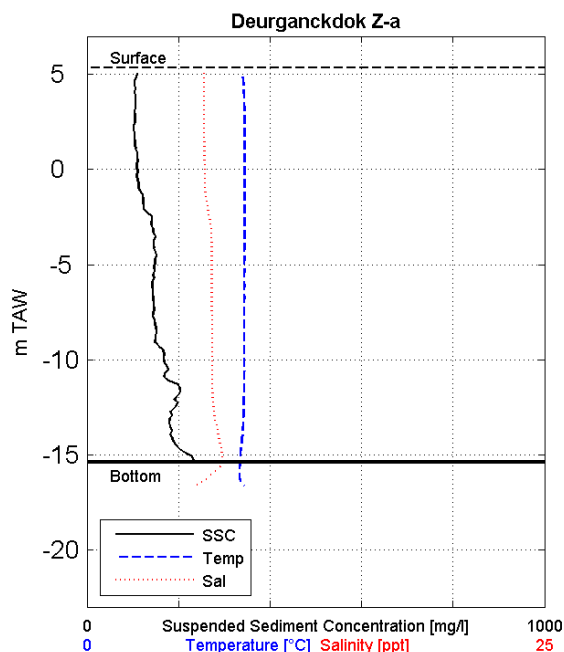


**Siltprofiler**

Date & Time [MET]: 12/3/2008 16:17  
 Time after/before HT [MET]: -2:02  
 Coordinates [UTM-ED50] Easting: 588678  
 Coordinates [UTM-ED50] Northing: 5684179  
 Water-Bottom Interface Siltpr. [m TAW]: -15.38  
 Waterdepth 210 kHz Echo [m TAW]: -15.55  
 Waterdepth 33 kHz Echo [m TAW]: -15.60  
 Surface Elevation [m TAW]: 3.61

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.33	7.4	5.7	98
2.73	7.8	5.7	101
1.92	8.1	5.8	101
1.08	8.3	5.8	98
0.23	8.4	5.9	110
-0.83	8.5	6.1	127
-1.78	8.6	6.1	132
-2.58	8.7	6.2	136
-3.37	8.7	6.4	179
-4.26	8.8	6.6	173
-5.25	8.7	6.7	201
-6.27	8.7	6.7	229
-7.23	8.7	6.8	278
-8.04	8.6	6.9	279
-8.83	8.5	7.0	256
-9.63	8.5	7.0	234
-10.46	8.5	7.0	201
-11.43	8.5	7.1	193
-12.53	8.4	7.2	182
-13.45	8.4	7.2	134
-14.38	8.3	7.4	121
-15.21	8.2	7.5	126
-15.38	8.3	7.5	129

Depth Avg    8.5    6.6    171

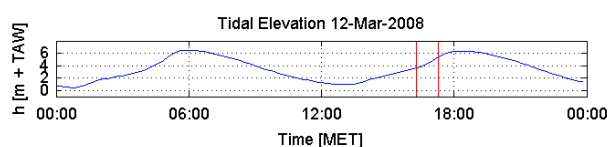


**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:17  
 Time after/before HT [MET]: -1:02  
 Coordinates [UTM-ED50] Easting: 588669  
 Coordinates [UTM-ED50] Northing: 5684168  
 Water-Bottom Interface Siltpr. [m TAW]: -15.41  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 5.35

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.07	8.5	6.4	110
4.55	8.5	6.3	104
3.89	8.5	6.4	104
3.14	8.6	6.4	102
2.06	8.6	6.4	103
0.78	8.6	6.4	110
-0.39	8.6	6.4	108
-1.60	8.6	6.5	121
-2.65	8.6	6.7	141
-3.53	8.7	6.8	149
-4.43	8.6	6.8	151
-5.49	8.6	6.8	137
-6.65	8.6	6.8	144
-7.70	8.6	6.8	146
-8.77	8.6	6.8	149
-9.72	8.6	6.8	166
-10.63	8.6	6.8	170
-11.65	8.6	6.8	200
-12.63	8.5	6.9	181
-13.56	8.5	7.1	182
-14.47	8.5	7.3	193
-15.29	8.3	7.4	235
-15.41	8.4	7.4	231

Depth Avg    8.6    6.7    145



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

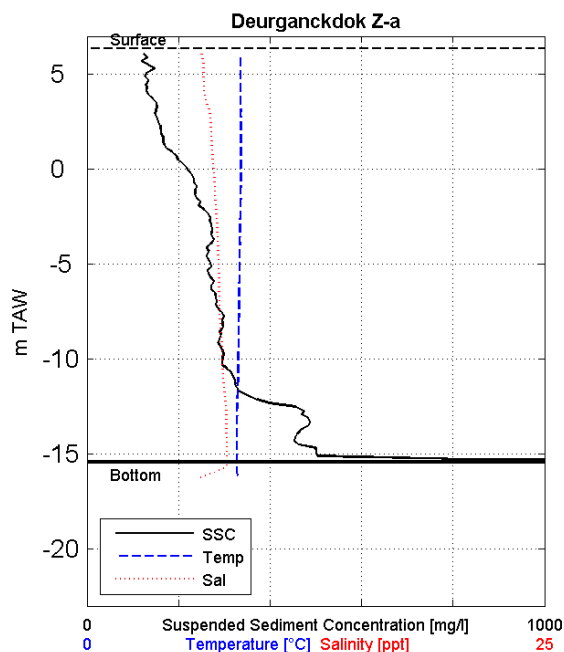
Sourcefile(s):

4137Za\_ctd.sil

4153Za\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 18:12

Time after/before HT [MET]: -0:07

Coordinates [UTM-ED50] Easting: 588659

Coordinates [UTM-ED50] Northing: 5684185

Water-Bottom Interface Siltpr. [m TAW]: -15.41

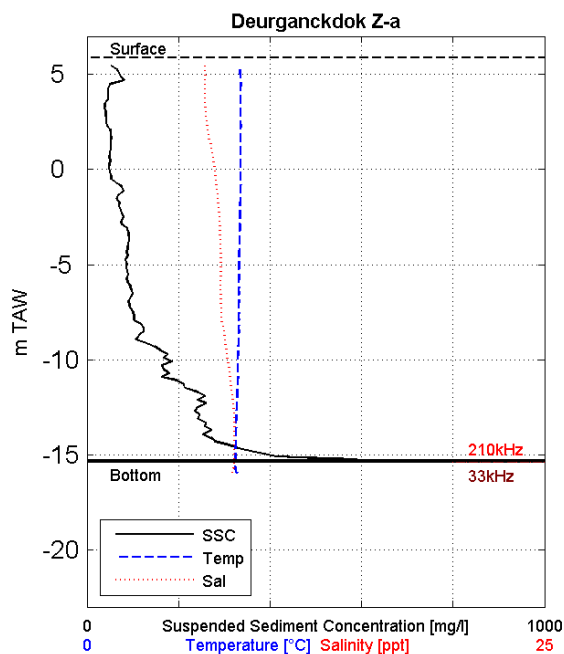
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 6.35

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.07	8.4	6.3	124
5.23	8.4	6.4	146
4.41	8.3	6.3	129
3.58	8.3	6.5	153
2.53	8.4	6.7	154
1.24	8.4	6.8	170
0.02	8.4	6.9	220
-1.03	8.5	7.0	234
-1.90	8.4	7.0	239
-2.87	8.4	7.1	271
-3.95	8.4	7.1	269
-5.16	8.4	7.2	267
-6.29	8.3	7.2	272
-7.20	8.3	7.2	281
-8.15	8.3	7.3	294
-9.32	8.3	7.3	290
-10.52	8.2	7.4	315
-11.49	8.2	7.5	326
-12.33	8.2	7.6	411
-13.23	8.2	7.6	482
-14.27	8.1	7.6	448
-15.30	8.1	7.6	555
-15.41	8.1	7.6	481

Depth Avg 8.3 7.1 310



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:30

Time after/before HT [MET]: 1:10

Coordinates [UTM-ED50] Easting: 588669

Coordinates [UTM-ED50] Northing: 5684184

Water-Bottom Interface Siltpr. [m TAW]: -15.35

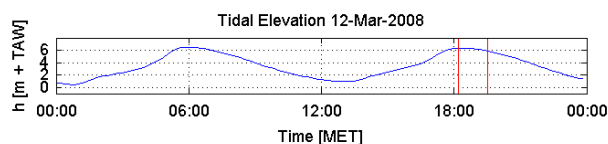
Waterdepth 210 kHz Echo [m TAW]: -15.42

Waterdepth 33 kHz Echo [m TAW]: -15.42

Surface Elevation [m TAW]: 5.86

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.54	8.2	6.4	40
5.35	8.3	6.4	62
5.27	8.3	6.4	39
5.23	8.3	6.4	42
5.13	8.4	6.4	41
4.30	8.3	6.4	52
3.07	8.4	6.5	38
1.79	8.3	6.6	50
0.57	8.4	6.9	55
-0.47	8.4	7.0	46
-1.76	8.3	7.2	93
-2.95	8.3	7.2	69
-4.06	8.3	7.3	105
-5.12	8.3	7.3	79
-6.59	8.3	7.3	84
-7.74	8.3	7.3	91
-9.15	8.3	7.5	168
-10.48	8.2	7.8	181
-11.68	8.2	7.9	251
-12.89	8.2	8.0	267
-14.08	8.1	8.0	294
-15.11	8.1	8.0	424
-15.35	8.1	8.0	820

Depth Avg 8.3 7.3 122



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

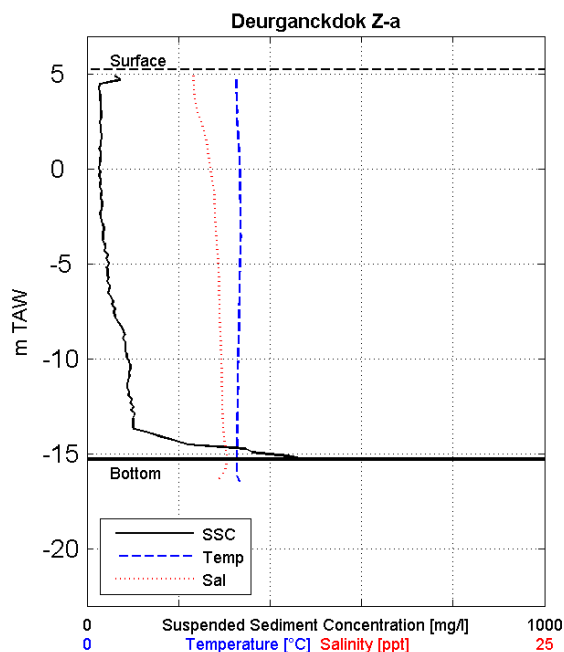
Sourcefile(s):

4168Za\_ctd.sil

4183Za\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:10

Time after/before HT [MET]: 1:50

Coordinates [UTM-ED50] Easting: 588656

Coordinates [UTM-ED50] Northing: 5684184

Water-Bottom Interface Siltpr. [m TAW]: -15.29

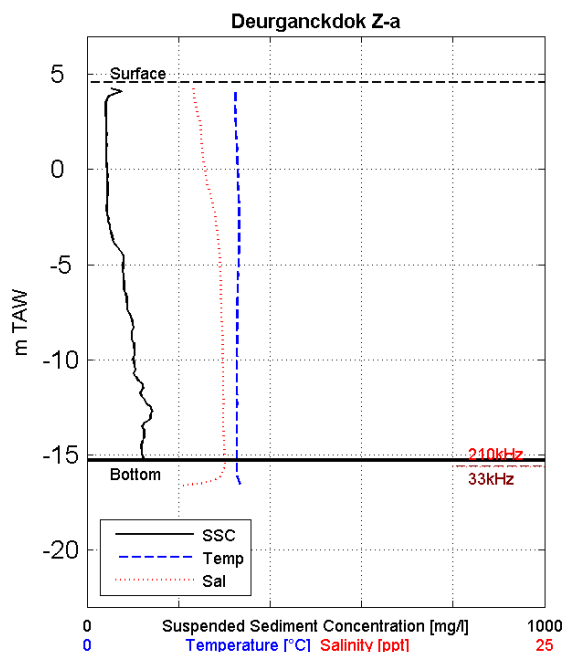
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 5.25

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.96	8.0	5.8	323
4.85	8.1	5.8	32
4.32	8.2	5.8	26
3.46	8.2	5.9	30
2.64	8.2	6.2	26
1.73	8.2	6.5	34
0.33	8.3	6.7	21
-0.70	8.3	6.8	32
-2.03	8.4	7.0	34
-3.18	8.4	7.0	27
-4.34	8.4	7.1	28
-5.50	8.3	7.2	42
-6.54	8.3	7.2	42
-7.70	8.4	7.2	65
-8.61	8.2	7.3	82
-9.58	8.3	7.3	83
-10.61	8.2	7.3	82
-11.49	8.3	7.4	81
-12.42	8.2	7.4	118
-13.34	8.2	7.4	112
-14.13	8.2	7.5	158
-15.06	8.1	7.6	415
-15.29	8.1	7.6	493

Depth Avg    8.3    7.0    69



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:54

Time after/before HT [MET]: 2:34

Coordinates [UTM-ED50] Easting: 588676

Coordinates [UTM-ED50] Northing: 5684194

Water-Bottom Interface Siltpr. [m TAW]: -15.31

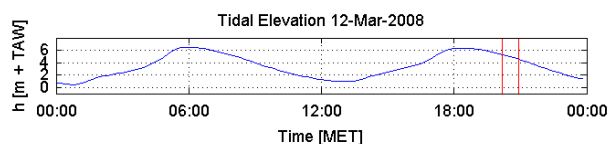
Waterdepth 210 kHz Echo [m TAW]: -15.65

Waterdepth 33 kHz Echo [m TAW]: -15.57

Surface Elevation [m TAW]: 4.55

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.27	8.1	5.8	46
4.12	8.1	5.8	75
3.48	8.1	5.9	40
2.84	8.1	6.1	40
2.02	8.2	6.2	41
1.24	8.2	6.3	42
0.36	8.2	6.4	43
-0.62	8.2	6.5	44
-1.64	8.3	6.8	40
-2.76	8.3	7.0	45
-3.87	8.3	7.2	57
-4.91	8.3	7.3	77
-5.99	8.2	7.3	80
-7.08	8.2	7.3	86
-8.27	8.2	7.4	102
-9.40	8.2	7.4	103
-10.35	8.2	7.4	107
-11.38	8.2	7.4	121
-12.42	8.2	7.4	137
-13.30	8.2	7.4	128
-14.25	8.2	7.5	115
-15.15	8.2	7.5	124
-15.31	8.2	7.5	2197

Depth Avg    8.2    7.0    79



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.12 Location Zb**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

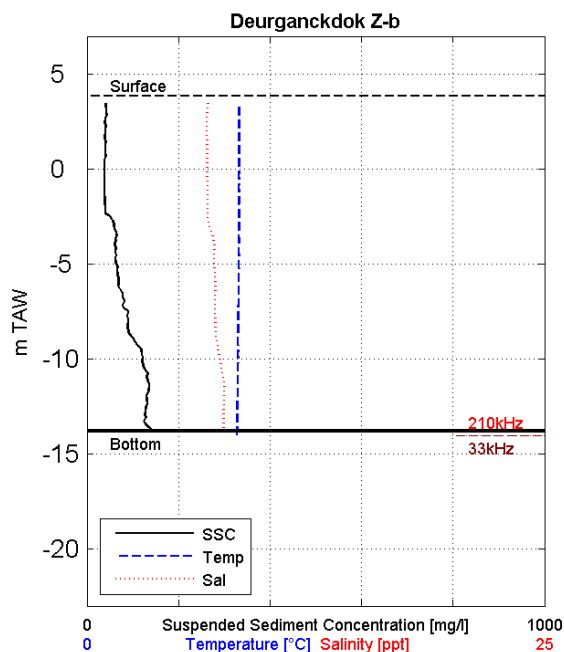
Sourcefile(s):

4014Zb\_ctd.sil

4029Zb\_ctd.sil

Location:

Deurganckdok

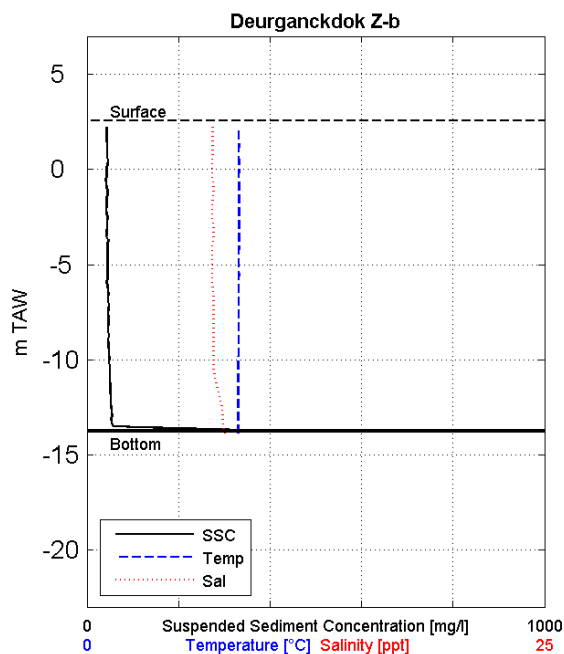


## Siltprofiler

Date & Time [MET]: 12/3/2008 09:05  
 Time after/before HT [MET]: 3:05  
 Coordinates [UTM-ED50] Easting: 588717  
 Coordinates [UTM-ED50] Northing: 5684237  
 Water-Bottom Interface Siltpr. [m TAW]: -13.79  
 Waterdepth 210 kHz Echo [m TAW]: -14.05  
 Waterdepth 33 kHz Echo [m TAW]: -14.01  
 Surface Elevation [m TAW]: 3.86

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.57	8.3	6.6	43
2.93	8.3	6.5	48
2.18	8.3	6.5	41
1.29	8.2	6.5	41
0.46	8.3	6.5	39
-0.33	8.2	6.5	37
-1.10	8.3	6.6	31
-1.93	8.3	6.6	37
-2.78	8.3	6.7	59
-3.56	8.3	6.9	62
-4.48	8.3	6.9	63
-5.31	8.3	7.0	69
-6.09	8.2	7.0	71
-6.77	8.2	7.0	82
-7.52	8.2	7.0	92
-8.39	8.3	7.0	88
-9.29	8.3	7.1	109
-10.16	8.2	7.3	122
-10.91	8.2	7.4	126
-11.70	8.2	7.5	132
-12.57	8.2	7.5	129
-13.50	8.2	7.5	136
-13.79	8.3	7.4	141

Depth Avg    8.3    6.9    75

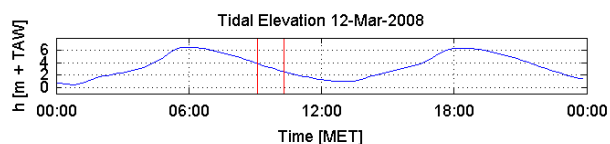


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:17  
 Time after/before HT [MET]: 4:17  
 Coordinates [UTM-ED50] Easting: 588717  
 Coordinates [UTM-ED50] Northing: 5684236  
 Water-Bottom Interface Siltpr. [m TAW]: -13.74  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 2.56

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.27	8.2	6.8	40
1.72	8.2	6.9	41
1.20	8.3	6.9	43
0.53	8.3	6.8	44
-0.18	8.3	6.8	41
-0.86	8.3	6.9	40
-1.65	8.3	6.8	43
-2.34	8.3	6.8	40
-3.19	8.3	6.9	39
-4.00	8.3	6.8	47
-4.89	8.3	6.8	48
-5.67	8.3	6.8	47
-6.51	8.3	6.9	45
-7.26	8.3	6.9	47
-8.04	8.3	6.9	47
-8.87	8.3	6.9	45
-9.62	8.2	6.9	45
-10.41	8.2	6.9	51
-11.20	8.3	7.0	49
-11.92	8.2	7.2	52
-12.61	8.3	7.4	53
-13.46	8.3	7.4	55
-13.74	8.3	7.5	9410

Depth Avg    8.3    6.9    54



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

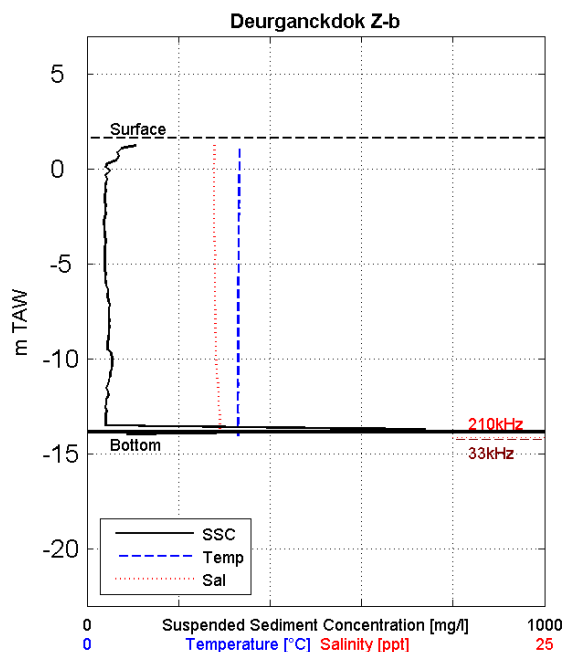
Sourcefile(s):

4044Zb\_ctd.sil

4060Zb\_ctd.sil

Location:

Deurganckdok

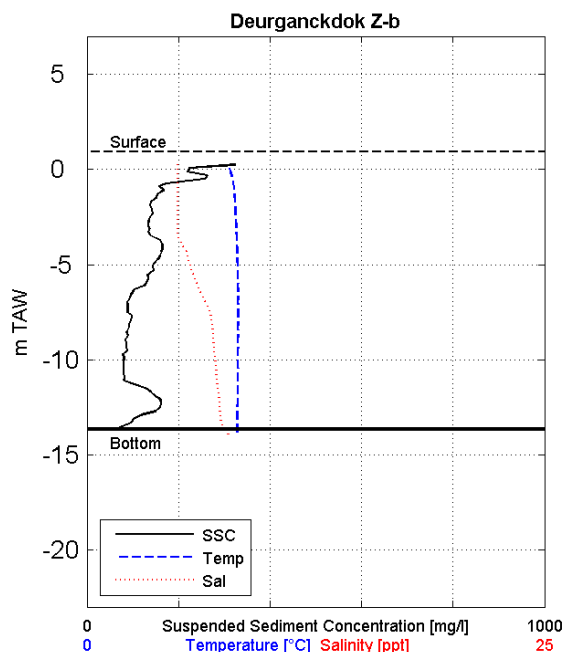


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:24  
 Time after/before HT [MET]: 5:24  
 Coordinates [UTM-ED50] Easting: 588735  
 Coordinates [UTM-ED50] Northing: 5684240  
 Water-Bottom Interface Siltpr. [m TAW]: -13.83  
 Waterdepth 210 kHz Echo [m TAW]: -14.11  
 Waterdepth 33 kHz Echo [m TAW]: -14.23  
 Surface Elevation [m TAW]: 1.62

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.31	8.4	7.0	123
0.80	8.3	7.0	41
0.14	8.3	6.9	40
-0.58	8.3	6.9	40
-1.24	8.3	6.9	40
-1.99	8.3	6.9	36
-2.70	8.2	6.9	36
-3.47	8.3	6.9	40
-4.21	8.3	7.0	42
-4.92	8.3	7.0	39
-5.58	8.3	7.0	46
-6.36	8.3	7.0	40
-7.17	8.3	7.0	54
-7.99	8.3	7.0	47
-8.72	8.2	7.0	47
-9.53	8.2	7.0	44
-10.25	8.2	7.0	56
-10.87	8.3	7.1	51
-11.59	8.2	7.2	39
-12.33	8.2	7.2	44
-13.01	8.2	7.3	49
-13.72	8.3	7.3	38
-13.83	8.2	7.3	1690

Depth Avg    8.3    7.0    56

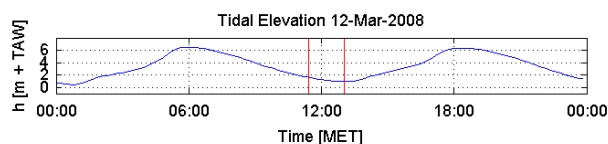


## Siltprofiler

Date & Time [MET]: 12/3/2008 13:01  
 Time after/before HT [MET]: -5:18  
 Coordinates [UTM-ED50] Easting: 588715  
 Coordinates [UTM-ED50] Northing: 5684259  
 Water-Bottom Interface Siltpr. [m TAW]: -13.66  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 0.93

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.35	7.7	4.9	353
-0.25	7.9	4.9	215
-0.88	8.0	4.9	147
-1.69	8.1	4.9	144
-2.60	8.1	4.9	123
-3.34	8.1	4.9	139
-3.98	8.2	5.2	173
-4.59	8.2	5.5	151
-5.18	8.2	5.7	142
-5.88	8.3	6.0	131
-6.64	8.2	6.3	103
-7.33	8.2	6.6	93
-7.93	8.2	6.8	92
-8.54	8.2	6.9	87
-9.18	8.2	6.9	78
-9.83	8.2	7.0	77
-10.43	8.2	7.0	75
-11.10	8.2	7.1	79
-11.73	8.2	7.2	154
-12.40	8.2	7.2	139
-13.05	8.2	7.3	103
-13.64	8.2	7.5	73
-13.66	8.2	7.5	1564

Depth Avg    8.1    6.1    138



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

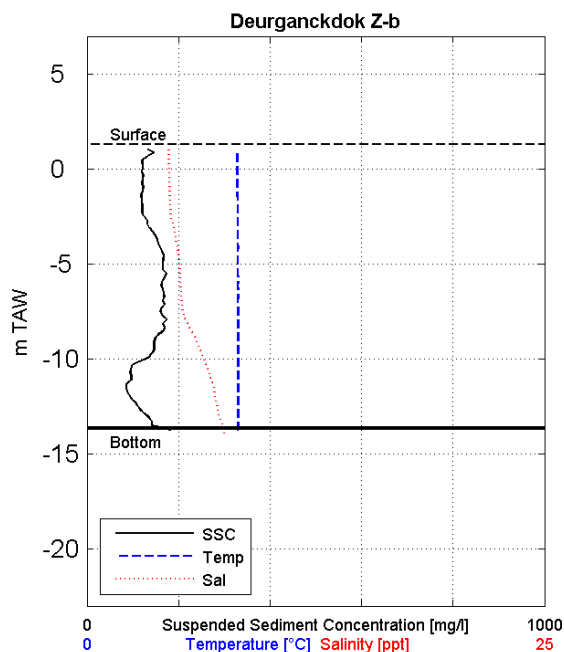
Sourcefile(s):

4075Zb\_ctd.sil

4090Zb\_ctd.sil

Location:

Deurganckdok

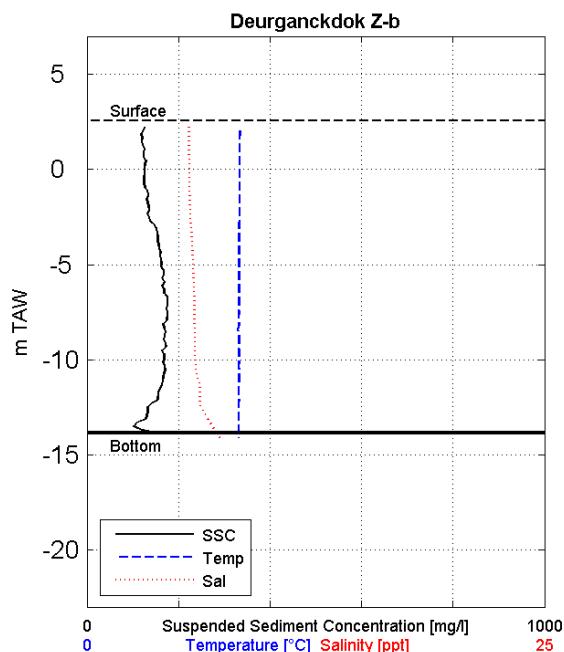


**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:52  
Time after/before HT [MET]: -4:27  
Coordinates [UTM-ED50] Easting: 588721  
Coordinates [UTM-ED50] Northing: 5684235  
Water-Bottom Interface Siltpr. [m TAW]: -13.67  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 1.32

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.04	8.2	4.5	128
0.37	8.2	4.5	121
0.06	8.2	4.5	121
-0.56	8.2	4.5	120
-1.52	8.2	4.5	119
-2.22	8.2	4.5	123
-2.73	8.2	4.7	135
-3.57	8.3	4.8	150
-4.57	8.2	5.0	171
-5.24	8.2	5.0	163
-5.80	8.3	5.1	162
-6.70	8.2	5.1	170
-7.54	8.2	5.2	161
-8.06	8.3	5.5	156
-8.60	8.3	5.8	163
-9.48	8.3	6.2	145
-10.34	8.2	6.5	95
-10.87	8.3	6.7	95
-11.39	8.3	6.9	81
-12.15	8.2	7.0	102
-12.95	8.3	7.2	127
-13.59	8.2	7.4	142
-13.67	8.2	7.5	791

Depth Avg 8.2 5.5 137

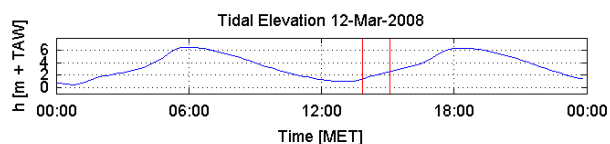


**Siltprofiler**

Date & Time [MET]: 12/3/2008 15:06  
Time after/before HT [MET]: -3:13  
Coordinates [UTM-ED50] Easting: 588703  
Coordinates [UTM-ED50] Northing: 5684240  
Water-Bottom Interface Siltpr. [m TAW]: -13.85  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 2.57

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.28	8.4	5.6	128
1.89	8.3	5.5	118
1.35	8.3	5.5	121
0.67	8.3	5.6	124
-0.14	8.3	5.5	124
-0.98	8.3	5.6	126
-1.79	8.3	5.6	136
-2.49	8.3	5.6	131
-3.09	8.3	5.7	152
-3.76	8.3	5.7	154
-4.45	8.3	5.8	164
-5.18	8.3	5.8	164
-5.97	8.3	5.8	168
-6.93	8.3	5.9	173
-7.81	8.2	5.9	175
-8.68	8.3	5.9	173
-9.50	8.3	5.9	164
-10.25	8.3	5.9	168
-11.10	8.3	6.1	168
-11.92	8.3	6.2	153
-12.79	8.3	6.4	132
-13.56	8.3	6.9	100
-13.85	8.3	7.1	188

Depth Avg 8.3 5.8 148



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

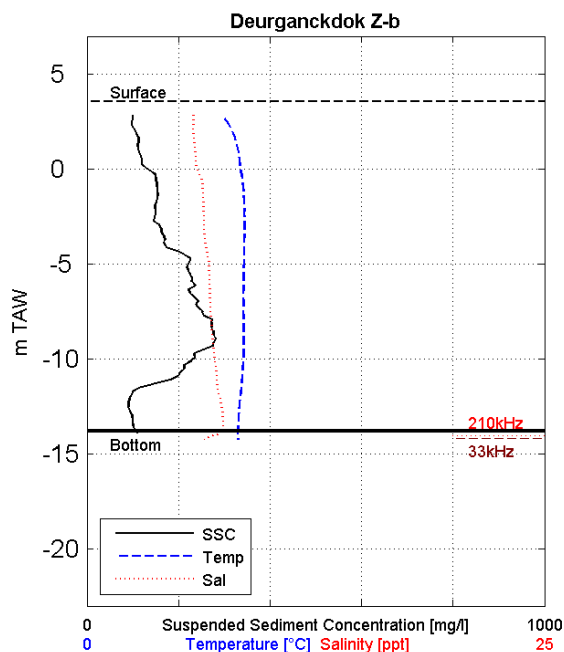
Sourcefile(s):

4106Zb\_ctd.sil

4121Zb\_ctd.sil

Location:

Deurganckdok

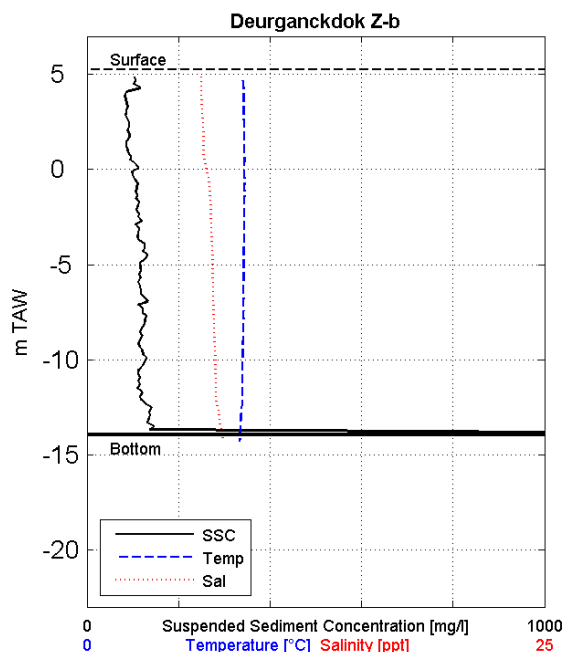


## Siltprofiler

Date & Time [MET]: 12/3/2008 16:14  
 Time after/before HT [MET]: -2:05  
 Coordinates [UTM-ED50] Easting: 588721  
 Coordinates [UTM-ED50] Northing: 5684255  
 Water-Bottom Interface Siltpr. [m TAW]: -13.81  
 Waterdepth 210 kHz Echo [m TAW]: -14.04  
 Waterdepth 33 kHz Echo [m TAW]: -14.16  
 Surface Elevation [m TAW]: 3.56

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.83	7.4	5.8	99
2.20	7.8	5.8	95
1.52	8.1	5.8	111
0.78	8.3	5.9	116
0.12	8.4	6.0	128
-0.50	8.5	6.3	149
-1.20	8.5	6.3	154
-2.08	8.6	6.3	150
-2.94	8.6	6.4	158
-3.76	8.5	6.4	173
-4.50	8.5	6.6	214
-5.35	8.6	6.7	220
-6.09	8.5	6.7	240
-6.93	8.6	6.7	243
-7.69	8.6	6.8	257
-8.57	8.6	6.8	273
-9.44	8.6	6.9	274
-10.32	8.6	7.0	214
-11.06	8.4	7.1	179
-11.80	8.4	7.2	91
-12.72	8.3	7.4	94
-13.65	8.3	7.4	101
-13.81	8.2	7.4	109

Depth Avg 8.4 6.6 170

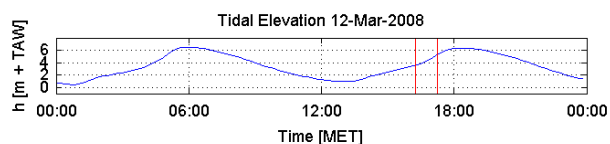


## Siltprofiler

Date & Time [MET]: 12/3/2008 17:14  
 Time after/before HT [MET]: -1:05  
 Coordinates [UTM-ED50] Easting: 588712  
 Coordinates [UTM-ED50] Northing: 5684258  
 Water-Bottom Interface Siltpr. [m TAW]: -13.97  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 5.27

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.96	8.5	6.2	103
4.23	8.5	6.2	84
3.31	8.5	6.3	84
2.26	8.6	6.3	95
1.20	8.6	6.4	81
0.29	8.6	6.5	83
-0.62	8.6	6.6	110
-1.55	8.5	6.7	104
-2.48	8.6	6.8	112
-3.45	8.6	6.8	98
-4.23	8.6	6.8	102
-4.97	8.6	6.9	115
-5.94	8.6	6.9	100
-7.01	8.5	6.9	113
-7.96	8.5	6.9	126
-8.86	8.5	7.0	109
-9.64	8.5	7.0	125
-10.30	8.5	7.0	115
-11.17	8.5	7.0	132
-12.17	8.5	7.1	135
-12.95	8.4	7.2	161
-13.84	8.4	7.3	142
-13.97	8.3	7.4	169

Depth Avg 8.5 6.7 118



Data Processed by:



In association with:



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

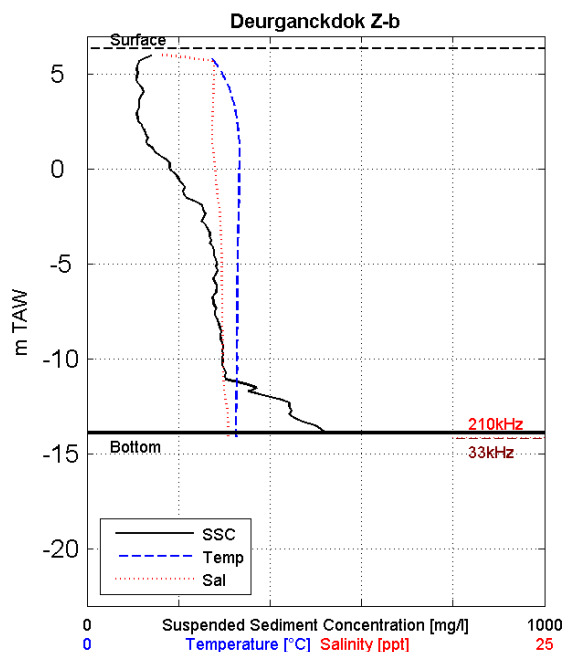
Sourcefile(s):

4136Zb\_ctd.sil

4152Zb\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 18:09

Time after/before HT [MET]: -0:10

Coordinates [UTM-ED50] Easting: 588722

Coordinates [UTM-ED50] Northing: 5684258

Water-Bottom Interface Siltpr. [m TAW]: -13.90

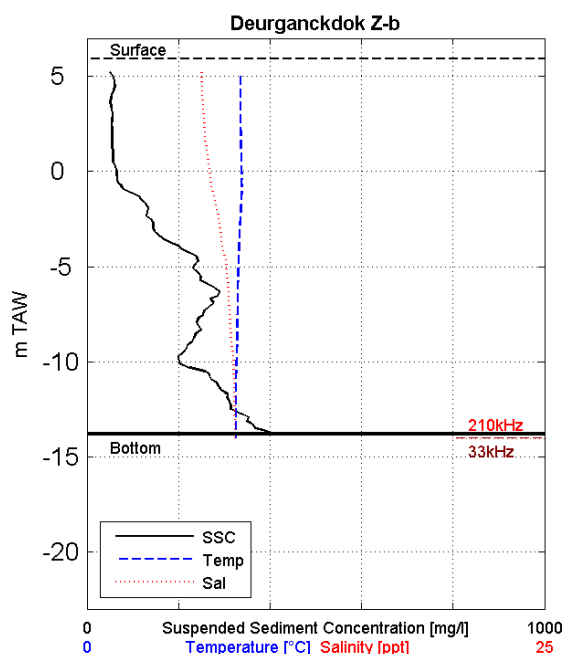
Waterdepth 210 kHz Echo [m TAW]: -14.11

Waterdepth 33 kHz Echo [m TAW]: -14.18

Surface Elevation [m TAW]: 6.35

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.03	6.7	4.0	140
5.00	7.4	6.9	108
3.93	7.9	6.9	117
2.87	8.1	6.8	110
1.94	8.2	6.8	126
1.02	8.3	6.9	146
0.01	8.3	7.0	171
-1.02	8.3	7.1	210
-1.97	8.3	7.2	252
-2.92	8.2	7.3	257
-3.74	8.2	7.3	274
-4.57	8.3	7.3	274
-5.50	8.2	7.3	285
-6.51	8.2	7.4	281
-7.41	8.2	7.4	284
-8.17	8.1	7.4	294
-8.93	8.2	7.4	292
-9.80	8.2	7.4	295
-10.84	8.2	7.4	300
-11.94	8.2	7.5	398
-12.86	8.1	7.7	438
-13.77	8.1	7.7	515
-13.90	8.1	7.7	535

Depth Avg 8.1 7.1 246



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:27

Time after/before HT [MET]: 1:07

Coordinates [UTM-ED50] Easting: 588705

Coordinates [UTM-ED50] Northing: 5684251

Water-Bottom Interface Siltpr. [m TAW]: -13.82

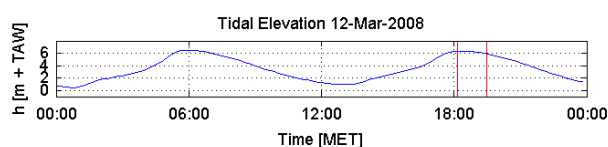
Waterdepth 210 kHz Echo [m TAW]: -14.04

Waterdepth 33 kHz Echo [m TAW]: -14.02

Surface Elevation [m TAW]: 5.90

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.26	8.3	6.2	36
5.15	8.3	6.3	51
5.08	8.3	6.3	54
5.04	8.3	6.3	54
4.99	8.3	6.3	59
4.63	8.3	6.3	62
3.63	8.4	6.3	51
2.51	8.4	6.4	53
1.39	8.4	6.5	50
0.37	8.4	6.6	57
-0.91	8.4	6.8	77
-2.06	8.4	7.1	132
-3.11	8.3	7.3	145
-4.10	8.3	7.4	208
-5.24	8.3	7.6	232
-6.26	8.2	7.7	284
-7.42	8.2	7.8	261
-8.75	8.2	7.9	234
-9.98	8.1	8.0	201
-11.18	8.1	8.0	284
-12.44	8.1	8.1	315
-13.62	8.1	8.1	382
-13.82	8.1	8.1	624

Depth Avg 8.3 7.3 175



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

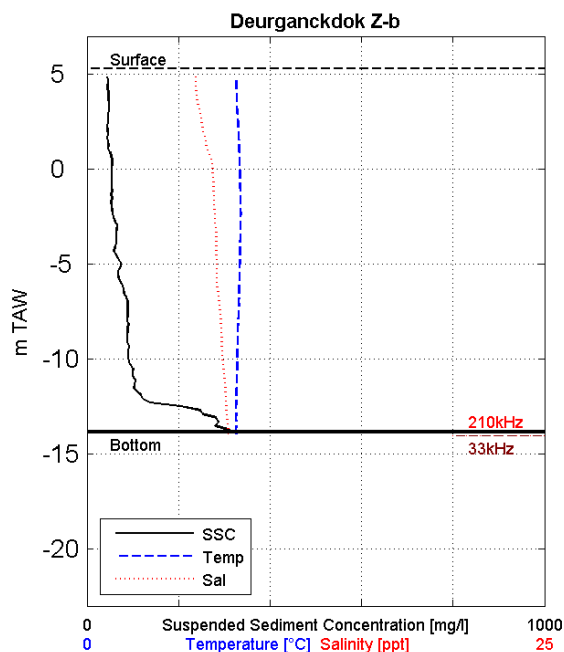
Sourcefile(s):

4167Zb\_ctd.sil

4182Zb\_ctd.sil

Location:

Deurganckdok

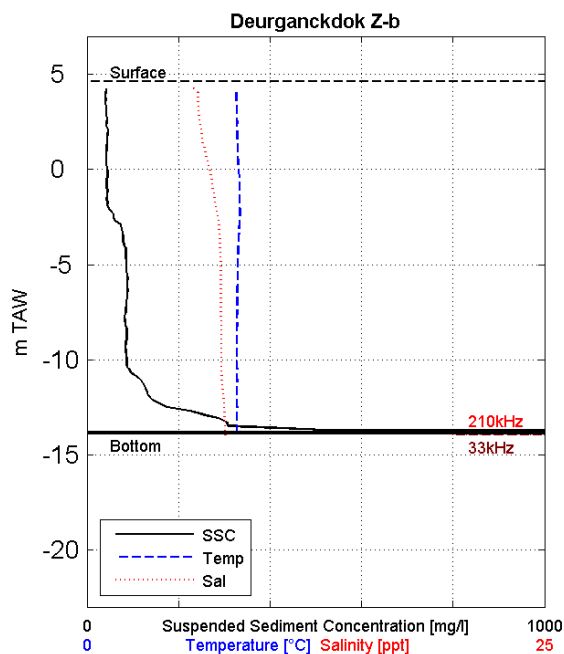


## Siltprofiler

Date & Time [MET]: 12/3/2008 20:08  
 Time after/before HT [MET]: 1:48  
 Coordinates [UTM-ED50] Easting: 588717  
 Coordinates [UTM-ED50] Northing: 5684255  
 Water-Bottom Interface Siltpr. [m TAW]: -13.82  
 Waterdepth 210 kHz Echo [m TAW]: -14.03  
 Waterdepth 33 kHz Echo [m TAW]: -14.02  
 Surface Elevation [m TAW]: 5.28

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.93	8.1	6.0	43
4.83	8.2	5.9	44
4.72	8.1	5.9	44
3.89	8.2	6.0	47
2.95	8.2	6.2	45
1.91	8.2	6.4	44
0.85	8.3	6.6	52
-0.23	8.4	6.9	51
-1.29	8.4	6.9	51
-2.26	8.4	6.9	56
-3.22	8.3	7.0	66
-4.22	8.4	7.0	58
-5.32	8.3	7.0	67
-6.29	8.4	7.1	79
-7.41	8.3	7.3	89
-8.39	8.2	7.3	86
-9.34	8.2	7.4	94
-10.31	8.2	7.4	92
-11.20	8.1	7.5	105
-12.02	8.2	7.6	118
-12.94	8.1	7.6	265
-13.77	8.1	7.7	318
-13.82	8.2	7.7	340

Depth Avg    8.3    7.0    83

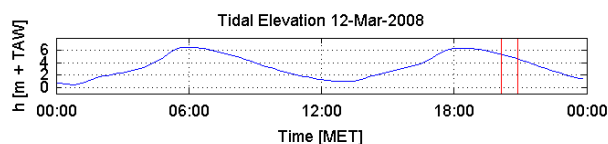


## Siltprofiler

Date & Time [MET]: 12/3/2008 20:52  
 Time after/before HT [MET]: 2:32  
 Coordinates [UTM-ED50] Easting: 588713  
 Coordinates [UTM-ED50] Northing: 5684269  
 Water-Bottom Interface Siltpr. [m TAW]: -13.84  
 Waterdepth 210 kHz Echo [m TAW]: -13.93  
 Waterdepth 33 kHz Echo [m TAW]: -13.94  
 Surface Elevation [m TAW]: 4.60

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.30	8.2	5.7	42
3.80	8.2	6.0	39
3.31	8.2	6.0	43
2.58	8.2	6.2	41
1.67	8.2	6.3	41
0.67	8.2	6.5	39
-0.37	8.3	6.8	44
-1.35	8.3	6.9	43
-2.37	8.4	7.1	59
-3.31	8.3	7.2	77
-4.21	8.2	7.3	85
-5.29	8.2	7.3	84
-6.30	8.2	7.3	89
-7.29	8.3	7.3	85
-8.20	8.2	7.3	84
-9.02	8.2	7.3	88
-9.85	8.2	7.3	86
-10.62	8.2	7.3	92
-11.44	8.2	7.4	127
-12.18	8.2	7.5	153
-13.00	8.2	7.5	274
-13.74	8.2	7.5	263
-13.84	8.2	7.5	22650

Depth Avg    8.2    7.0    144



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

## **F.13 Location Zc**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

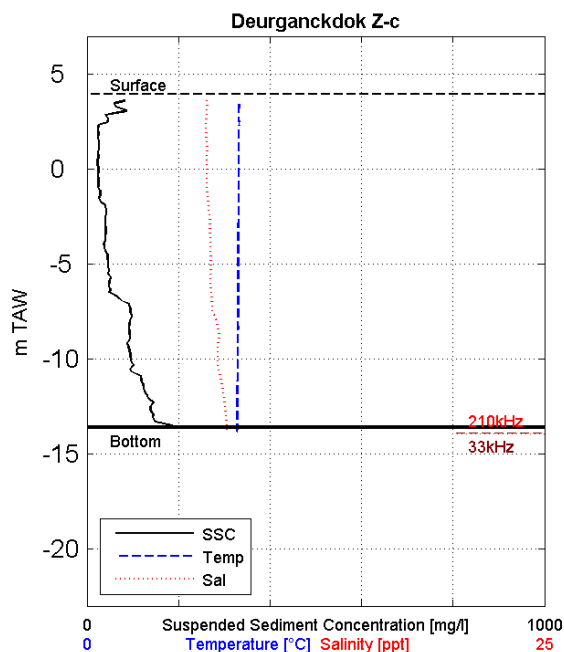
Sourcefile(s):

4013Zc\_ctd.sil

4028Zc\_ctd.sil

Location:

Deurganckdok

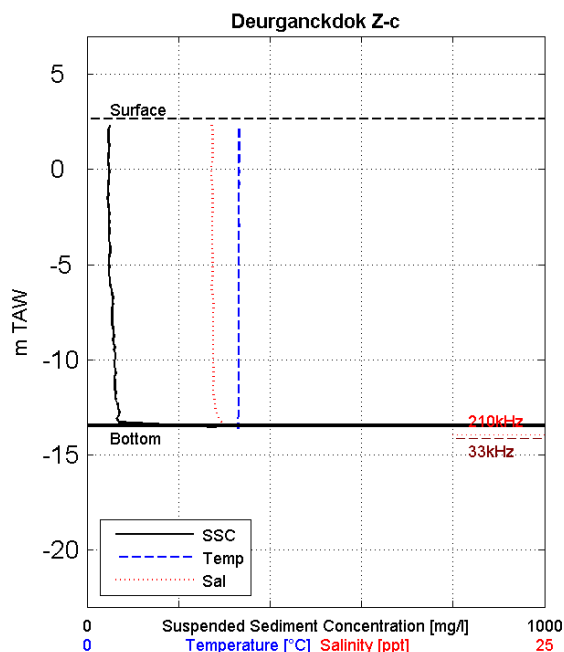


## Siltprofiler

Date & Time [MET]: 12/3/2008 09:01  
 Time after/before HT [MET]: 3:01  
 Coordinates [UTM-ED50] Easting: 588763  
 Coordinates [UTM-ED50] Northing: 5684323  
 Water-Bottom Interface Siltpr. [m TAW]: -13.60  
 Waterdepth 210 kHz Echo [m TAW]: -13.95  
 Waterdepth 33 kHz Echo [m TAW]: -13.90  
 Surface Elevation [m TAW]: 3.93

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.65	8.3	6.5	83
3.21	8.3	6.5	35
2.48	8.3	6.5	27
1.52	8.3	6.5	27
0.42	8.3	6.5	24
-0.60	8.3	6.5	23
-1.54	8.3	6.6	25
-2.28	8.3	6.7	44
-3.00	8.3	6.7	42
-3.75	8.3	6.7	39
-4.43	8.3	6.7	46
-5.16	8.3	6.8	44
-6.03	8.3	6.8	47
-6.99	8.3	6.8	89
-7.77	8.2	7.0	100
-8.45	8.3	7.2	92
-9.21	8.2	7.1	91
-10.16	8.2	7.1	106
-11.05	8.2	7.3	114
-11.86	8.2	7.4	129
-12.62	8.2	7.5	134
-13.48	8.2	7.6	163
-13.60	8.2	7.6	151

Depth Avg    8.2    6.9    67

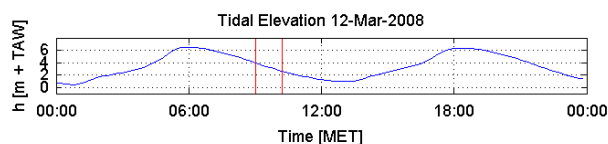


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:12  
 Time after/before HT [MET]: 4:12  
 Coordinates [UTM-ED50] Easting: 588766  
 Coordinates [UTM-ED50] Northing: 5684311  
 Water-Bottom Interface Siltpr. [m TAW]: -13.46  
 Waterdepth 210 kHz Echo [m TAW]: -13.95  
 Waterdepth 33 kHz Echo [m TAW]: -14.13  
 Surface Elevation [m TAW]: 2.65

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.37	8.3	6.8	52
1.79	8.3	6.9	54
1.21	8.3	6.8	48
0.58	8.3	6.8	45
-0.15	8.3	6.8	51
-0.80	8.3	6.8	47
-1.61	8.4	6.9	44
-2.34	8.3	6.8	42
-3.08	8.3	6.8	47
-3.85	8.2	6.8	48
-4.57	8.2	6.9	49
-5.35	8.3	6.8	47
-6.24	8.2	6.8	55
-7.01	8.3	6.9	55
-7.70	8.3	6.9	56
-8.50	8.2	6.9	60
-9.21	8.3	6.8	61
-9.94	8.3	6.9	60
-10.75	8.2	6.9	62
-11.62	8.2	6.9	63
-12.48	8.3	7.0	67
-13.21	8.2	7.3	65
-13.46	8.2	7.4	66

Depth Avg    8.3    6.9    54



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

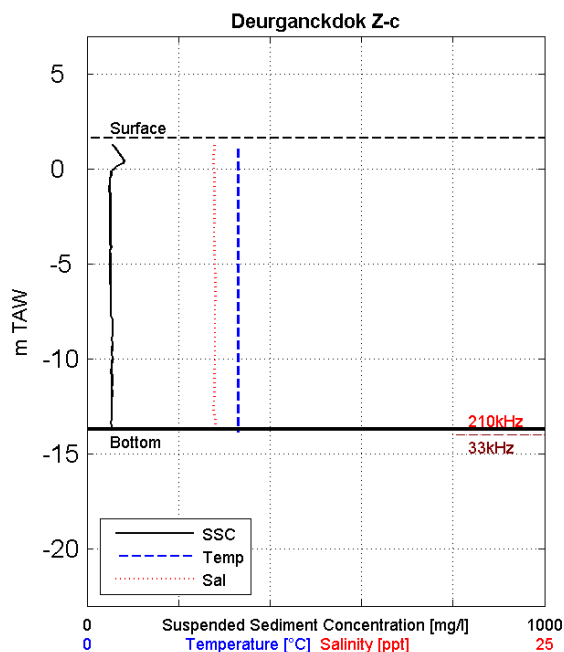
Sourcefile(s):

4043Zc\_ctd.sil

4059Zc\_ctd.sil

Location:

Deurganckdok

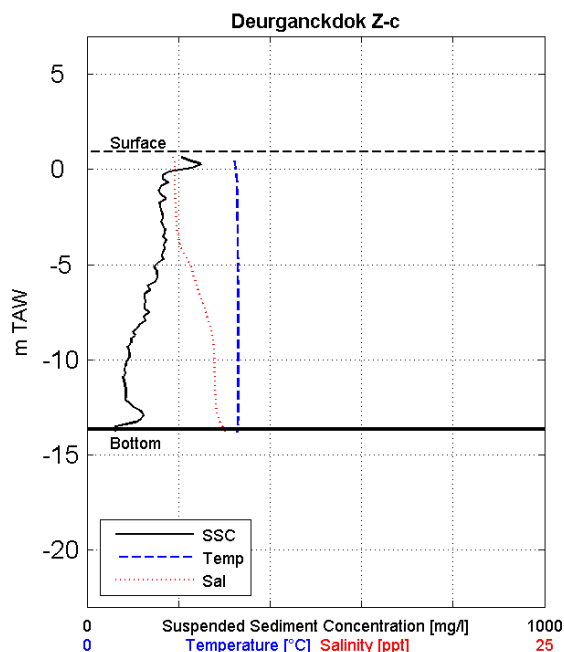


**Siltprofiler**

Date & Time [MET]: 12/3/2008 11:21  
 Time after/before HT [MET]: 5:21  
 Coordinates [UTM-ED50] Easting: 588772  
 Coordinates [UTM-ED50] Northing: 5684344  
 Water-Bottom Interface Siltpr. [m TAW]: -13.68  
 Waterdepth 210 kHz Echo [m TAW]: -13.98  
 Waterdepth 33 kHz Echo [m TAW]: -13.98  
 Surface Elevation [m TAW]: 1.65

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.37	8.2	7.0	56
0.34	8.2	6.9	68
-0.29	8.2	7.0	50
-1.10	8.3	7.0	46
-1.76	8.3	6.9	51
-2.36	8.3	6.9	51
-3.04	8.3	6.9	50
-3.83	8.2	6.9	51
-4.63	8.3	7.0	52
-5.34	8.3	7.0	50
-6.11	8.3	7.0	49
-6.88	8.3	7.0	51
-7.53	8.3	7.0	52
-8.22	8.3	7.0	56
-8.95	8.3	7.0	52
-9.63	8.3	7.0	54
-10.28	8.2	7.0	55
-10.91	8.3	7.0	54
-11.55	8.2	7.0	54
-12.26	8.2	6.9	52
-12.89	8.2	7.0	50
-13.46	8.2	7.0	53
-13.68	8.2	7.0	58

Depth Avg    8.3    7.0    54

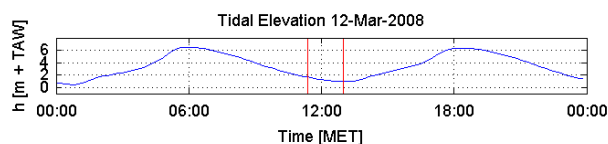


**Siltprofiler**

Date & Time [MET]: 12/3/2008 12:59  
 Time after/before HT [MET]: 6:59  
 Coordinates [UTM-ED50] Easting: 588773  
 Coordinates [UTM-ED50] Northing: 5684322  
 Water-Bottom Interface Siltpr. [m TAW]: -13.67  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 0.93

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.62	8.0	4.7	222
0.27	8.0	4.8	857
-0.13	8.1	4.8	402
-0.62	8.2	4.8	271
-1.37	8.2	4.8	165
-2.25	8.2	4.8	174
-2.91	8.2	4.9	169
-3.63	8.2	5.0	163
-4.53	8.2	5.4	157
-5.47	8.2	5.8	162
-6.39	8.3	6.1	136
-7.03	8.3	6.3	124
-7.76	8.3	6.6	127
-8.53	8.3	6.8	97
-9.27	8.2	6.9	86
-9.89	8.2	6.9	86
-10.38	8.2	7.0	84
-11.02	8.3	7.0	83
-11.70	8.3	7.0	73
-12.26	8.2	7.0	84
-12.78	8.2	7.1	124
-13.43	8.2	7.3	66
-13.67	8.2	7.5	33066

Depth Avg    8.2    6.0    176



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

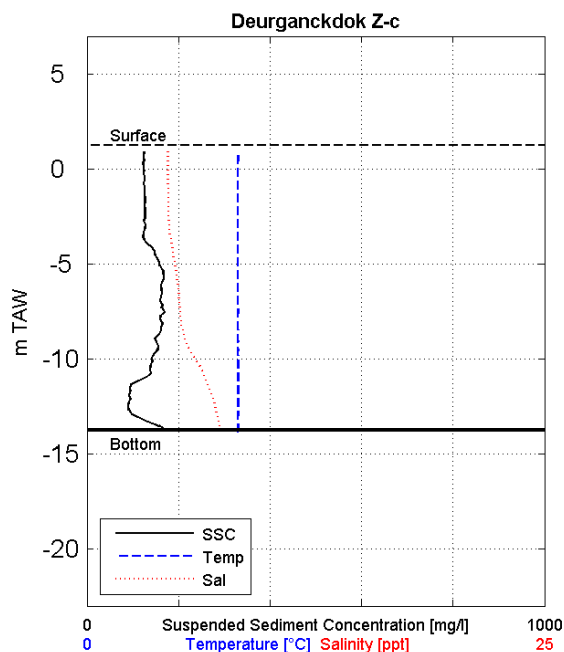
Sourcefile(s):

4074Zc\_ctd.sil

4089Zc\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:49

Time after/before HT [MET]: -4:30

Coordinates [UTM-ED50] Easting: 588775

Coordinates [UTM-ED50] Northing: 5684322

Water-Bottom Interface Siltpr. [m TAW]: -13.75

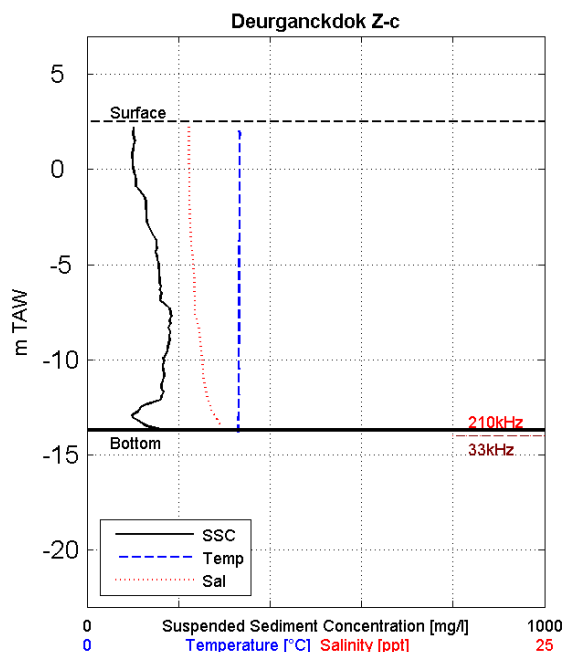
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 1.27

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.98	8.2	4.4	121
0.42	8.2	4.4	120
-0.22	8.2	4.4	126
-0.97	8.2	4.4	124
-1.53	8.2	4.4	129
-2.31	8.2	4.4	128
-2.93	8.2	4.5	125
-3.64	8.2	4.6	124
-4.51	8.2	4.7	147
-5.32	8.2	4.8	166
-6.00	8.2	4.9	162
-6.64	8.2	5.0	159
-7.31	8.2	5.0	159
-7.96	8.2	5.1	164
-8.68	8.2	5.3	154
-9.41	8.3	5.6	156
-10.16	8.3	6.0	142
-10.86	8.3	6.4	133
-11.49	8.2	6.7	91
-12.00	8.3	6.9	93
-12.68	8.3	7.0	91
-13.52	8.3	7.2	154
-13.75	8.3	7.3	177

Depth Avg 8.2 5.3 136



**Siltprofiler**

Date & Time [MET]: 12/3/2008 15:02

Time after/before HT [MET]: -3:17

Coordinates [UTM-ED50] Easting: 588773

Coordinates [UTM-ED50] Northing: 5684335

Water-Bottom Interface Siltpr. [m TAW]: -13.69

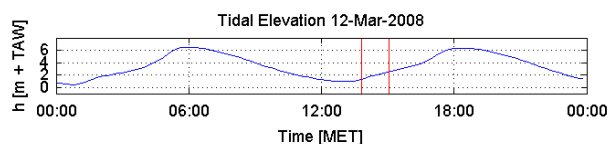
Waterdepth 210 kHz Echo [m TAW]: -14.00

Waterdepth 33 kHz Echo [m TAW]: -14.01

Surface Elevation [m TAW]: 2.51

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.23	8.3	5.5	101
1.52	8.3	5.5	105
0.84	8.4	5.5	98
0.13	8.3	5.5	102
-0.56	8.3	5.5	107
-1.20	8.3	5.5	117
-1.95	8.3	5.6	129
-2.80	8.3	5.6	129
-3.60	8.3	5.7	148
-4.28	8.3	5.7	146
-5.01	8.3	5.8	159
-5.90	8.3	5.8	160
-6.73	8.3	5.9	159
-7.48	8.3	5.9	180
-8.20	8.3	6.1	179
-8.98	8.3	6.2	177
-9.80	8.3	6.3	163
-10.63	8.2	6.3	163
-11.41	8.3	6.4	161
-12.06	8.3	6.6	160
-12.79	8.3	6.8	101
-13.47	8.2	7.3	136
-13.69	8.2	7.4	186

Depth Avg 8.3 6.0 142



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

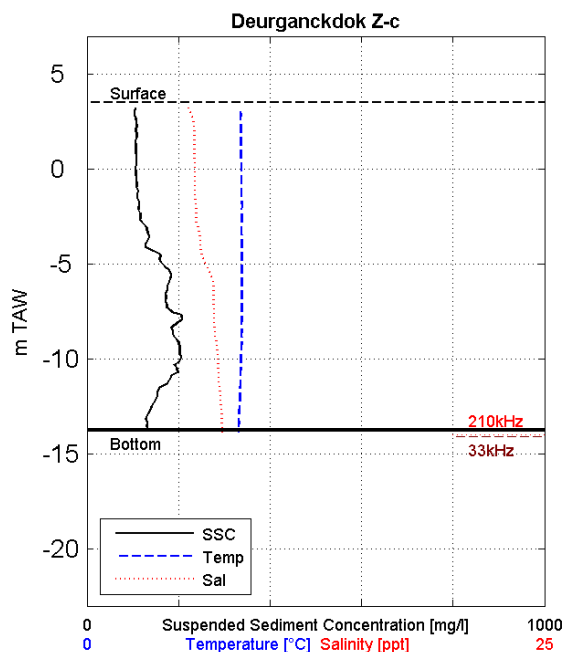
Sourcefile(s):

4105Zc\_ctd.sil

4120Zc\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 16:11

Time after/before HT [MET]: -2:08

Coordinates [UTM-ED50] Easting: 588779

Coordinates [UTM-ED50] Northing: 5684334

Water-Bottom Interface Siltpr. [m TAW]: -13.75

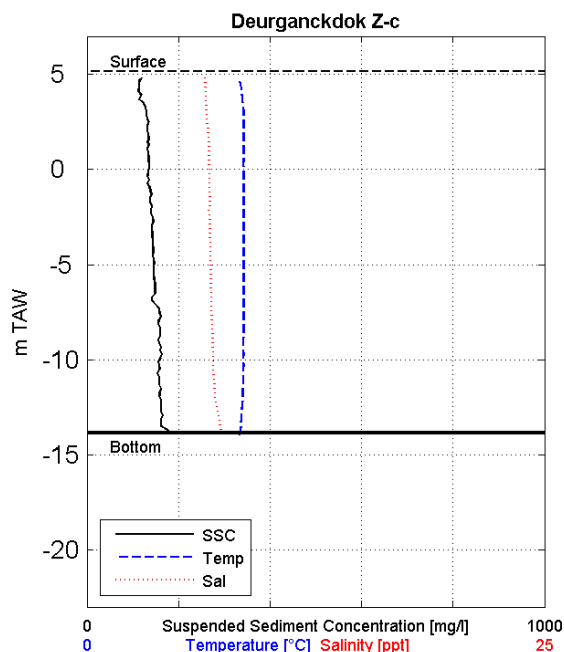
Waterdepth 210 kHz Echo [m TAW]: -13.98

Waterdepth 33 kHz Echo [m TAW]: -14.10

Surface Elevation [m TAW]: 3.50

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.22	8.4	5.5	107
2.50	8.4	5.8	106
1.74	8.4	5.9	107
0.93	8.4	5.9	107
0.17	8.4	5.9	104
-0.53	8.4	5.8	108
-1.21	8.4	5.9	108
-1.90	8.5	5.9	113
-2.73	8.4	6.0	117
-3.57	8.4	6.2	138
-4.36	8.4	6.2	158
-5.08	8.5	6.5	162
-5.85	8.5	6.9	180
-6.68	8.5	6.9	171
-7.50	8.4	6.9	184
-8.45	8.5	7.0	186
-9.36	8.4	7.1	204
-10.21	8.4	7.2	202
-10.98	8.4	7.2	183
-11.85	8.4	7.3	152
-12.78	8.3	7.3	136
-13.63	8.2	7.4	131
-13.75	8.3	7.4	3669

Depth Avg 8.4 6.5 148



**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:12

Time after/before HT [MET]: -1:08

Coordinates [UTM-ED50] Easting: 588762

Coordinates [UTM-ED50] Northing: 5684321

Water-Bottom Interface Siltpr. [m TAW]: -13.87

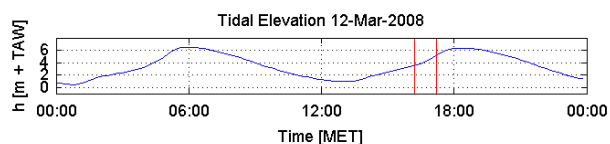
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 5.16

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.86	8.3	6.4	117
4.28	8.4	6.5	112
3.66	8.4	6.5	112
3.08	8.5	6.5	128
2.32	8.6	6.6	131
1.22	8.5	6.7	134
0.15	8.5	6.7	138
-0.77	8.5	6.7	137
-1.59	8.6	6.7	136
-2.32	8.5	6.7	140
-3.07	8.5	6.7	141
-3.97	8.5	6.7	145
-4.88	8.5	6.7	147
-5.74	8.6	6.8	144
-6.50	8.6	6.8	150
-7.53	8.6	6.8	154
-8.51	8.6	6.8	160
-9.57	8.5	6.9	162
-10.66	8.5	6.9	154
-11.79	8.5	7.0	159
-12.84	8.4	7.2	169
-13.73	8.4	7.3	184
-13.87	8.4	7.3	188

Depth Avg 8.5 6.8 144



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

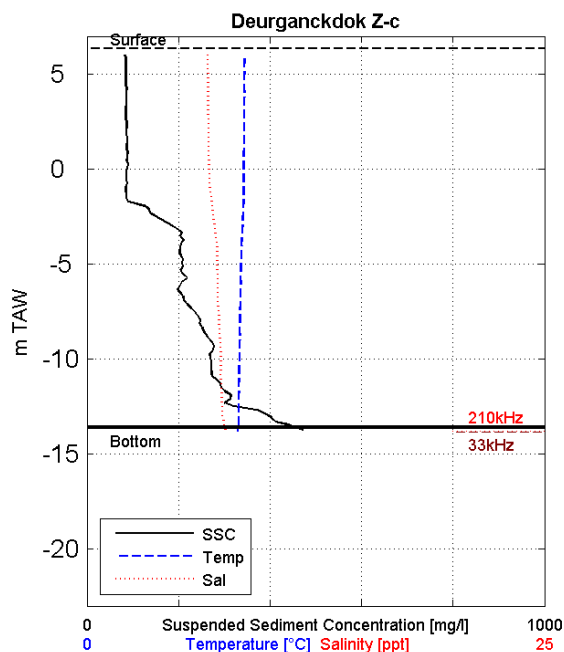
Sourcefile(s):

4135Zc\_ctd.sil

4151Zc\_ctd.sil

Location:

Deurganckdok

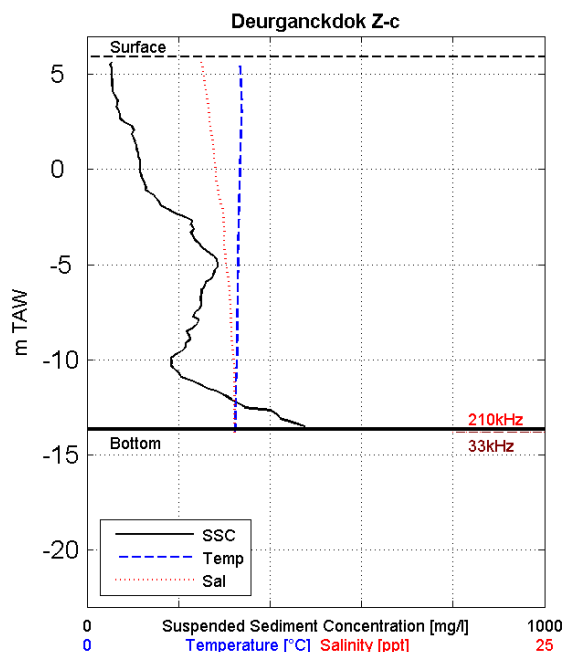


## Siltprofiler

Date & Time [MET]: 12/3/2008 18:06  
 Time after/before HT [MET]: -0:13  
 Coordinates [UTM-ED50] Easting: 588758  
 Coordinates [UTM-ED50] Northing: 5684338  
 Water-Bottom Interface Siltpr. [m TAW]: -13.60  
 Waterdepth 210 kHz Echo [m TAW]: -13.79  
 Waterdepth 33 kHz Echo [m TAW]: -13.82  
 Surface Elevation [m TAW]: 6.33

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.04	8.6	6.6	83
5.40	8.6	6.6	86
4.70	8.6	6.6	85
3.75	8.6	6.6	85
2.72	8.6	6.6	86
1.83	8.6	6.6	87
0.94	8.6	6.6	89
-0.13	8.6	6.7	88
-1.18	8.5	6.7	82
-2.15	8.5	6.9	134
-3.21	8.5	7.0	210
-4.09	8.5	7.1	203
-5.10	8.3	7.1	211
-6.12	8.4	7.1	202
-7.11	8.4	7.2	219
-8.01	8.3	7.2	248
-8.94	8.3	7.3	274
-9.78	8.3	7.3	261
-10.52	8.3	7.3	274
-11.40	8.3	7.3	290
-12.44	8.3	7.4	300
-13.40	8.2	7.5	426
-13.60	8.3	7.5	486

Depth Avg 8.4 7.0 182

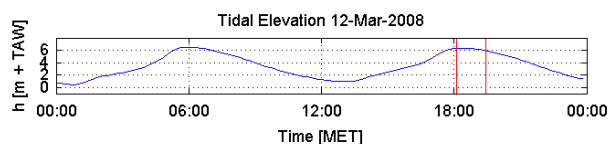


## Siltprofiler

Date & Time [MET]: 12/3/2008 19:25  
 Time after/before HT [MET]: 1:05  
 Coordinates [UTM-ED50] Easting: 588759  
 Coordinates [UTM-ED50] Northing: 5684330  
 Water-Bottom Interface Siltpr. [m TAW]: -13.66  
 Waterdepth 210 kHz Echo [m TAW]: -13.82  
 Waterdepth 33 kHz Echo [m TAW]: -13.81  
 Surface Elevation [m TAW]: 5.94

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.66	8.3	6.2	55
5.61	8.3	6.2	55
5.26	8.4	6.3	54
4.48	8.4	6.4	54
3.47	8.4	6.6	66
2.49	8.4	6.7	77
1.50	8.4	6.8	104
0.52	8.4	7.0	113
-0.43	8.3	7.0	119
-1.39	8.3	7.2	146
-2.42	8.3	7.4	193
-3.18	8.3	7.5	232
-4.13	8.3	7.5	248
-5.22	8.2	7.6	280
-6.19	8.2	7.8	248
-7.28	8.2	7.8	243
-8.20	8.2	7.9	240
-9.22	8.2	7.9	218
-10.30	8.2	8.0	184
-11.44	8.1	8.1	254
-12.54	8.1	8.1	343
-13.54	8.1	8.1	475
-13.66	8.1	8.1	568

Depth Avg 8.3 7.4 193



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

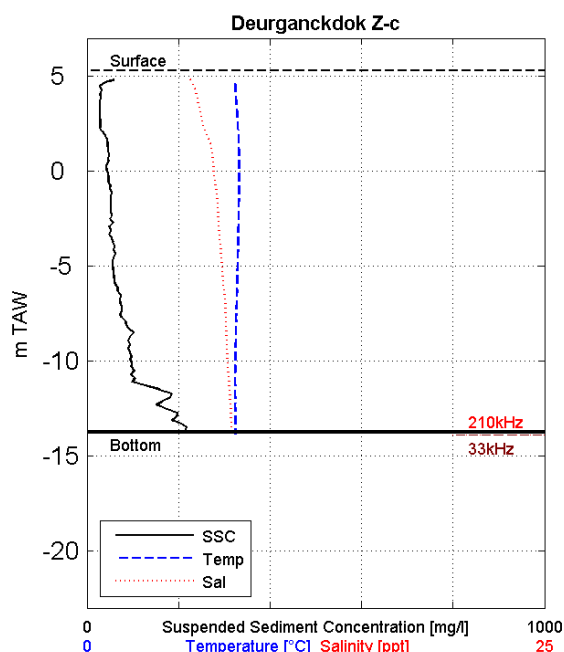
Sourcefile(s):

4166Zc\_ctd.sil

4181Zc\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:06

Time after/before HT [MET]: 1:46

Coordinates [UTM-ED50] Easting: 588772

Coordinates [UTM-ED50] Northing: 5684344

Water-Bottom Interface Siltpr. [m TAW]: -13.74

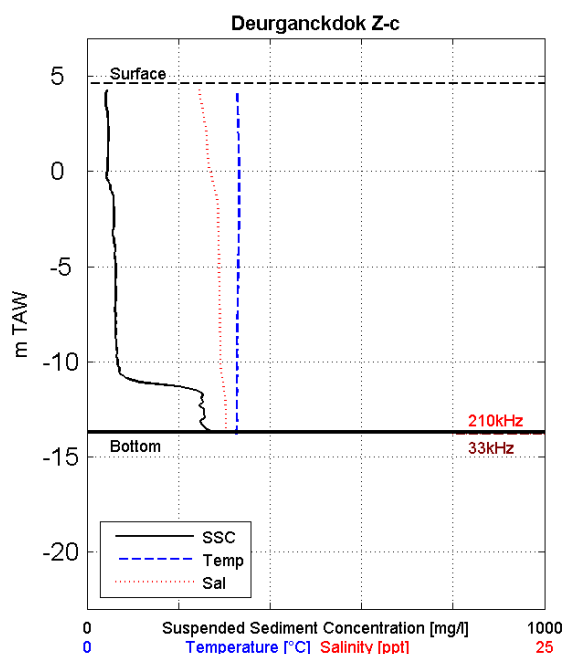
Waterdepth 210 kHz Echo [m TAW]: -13.91

Waterdepth 33 kHz Echo [m TAW]: -13.89

Surface Elevation [m TAW]: 5.31

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.86	8.1	5.6	67
4.48	8.1	5.8	25
3.95	8.1	6.0	27
3.19	8.2	6.2	22
2.31	8.3	6.4	30
1.39	8.2	6.8	46
0.52	8.3	6.9	50
-0.44	8.3	7.0	49
-1.50	8.3	7.1	44
-2.67	8.3	7.2	50
-3.64	8.2	7.3	46
-4.62	8.2	7.3	61
-5.55	8.2	7.4	64
-6.44	8.2	7.5	82
-7.19	8.1	7.6	73
-8.01	8.1	7.6	67
-8.86	8.1	7.6	85
-9.77	8.1	7.7	118
-10.69	8.1	7.7	93
-11.65	8.1	7.8	188
-12.60	8.1	7.8	207
-13.46	8.1	7.9	243
-13.74	8.1	7.9	1271

Depth Avg    8.2    7.1    75



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:49

Time after/before HT [MET]: 2:29

Coordinates [UTM-ED50] Easting: 588741

Coordinates [UTM-ED50] Northing: 5684352

Water-Bottom Interface Siltpr. [m TAW]: -13.72

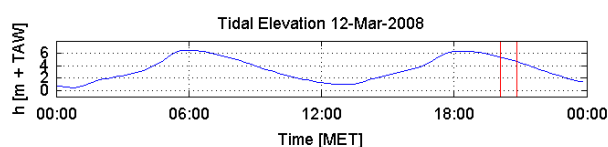
Waterdepth 210 kHz Echo [m TAW]: -13.81

Waterdepth 33 kHz Echo [m TAW]: -13.82

Surface Elevation [m TAW]: 4.64

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.36	8.1	6.1	55
4.30	8.2	6.1	43
4.25	8.2	6.1	41
4.20	8.2	6.1	41
3.68	8.2	6.2	41
2.82	8.3	6.4	46
1.80	8.3	6.5	46
0.79	8.3	6.6	47
-0.18	8.3	6.8	41
-1.24	8.3	7.0	56
-2.43	8.3	7.2	56
-3.63	8.3	7.2	60
-4.79	8.3	7.2	65
-5.89	8.2	7.2	61
-6.90	8.2	7.2	60
-7.82	8.2	7.3	65
-8.70	8.2	7.3	61
-9.72	8.2	7.3	66
-10.83	8.2	7.4	83
-11.65	8.2	7.5	248
-12.59	8.1	7.6	264
-13.54	8.1	7.6	251
-13.72	8.1	7.6	271

Depth Avg    8.2    7.0    82



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## **F.14 Location Zd**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

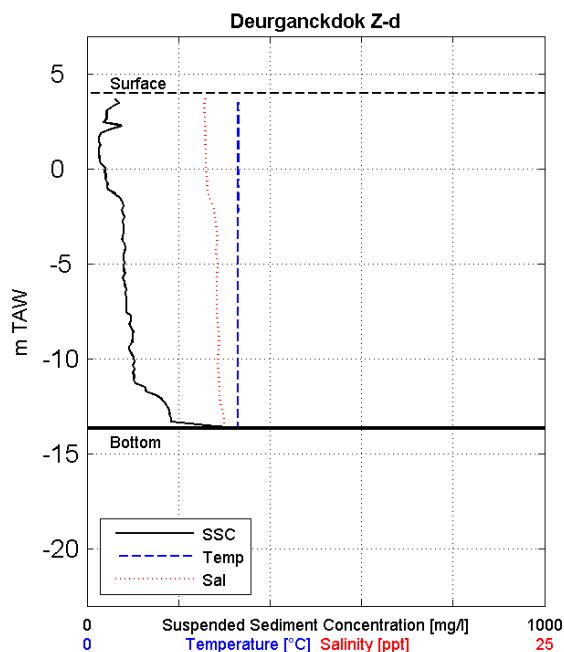
Sourcefile(s):

4012Zd\_ctd.sil

4027Zd\_ctd.sil

Location:

Deurganckdok

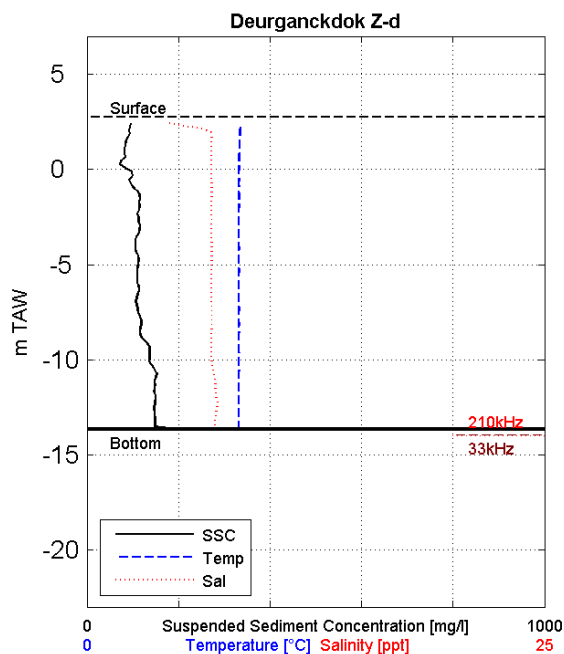


## Siltprofiler

Date & Time [MET]: 12/3/2008 08:58  
 Time after/before HT [MET]: 2:58  
 Coordinates [UTM-ED50] Easting: 588813  
 Coordinates [UTM-ED50] Northing: 5684398  
 Water-Bottom Interface Siltpr. [m TAW]: -13.66  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 4.01

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.73	8.2	6.5	74
3.39	8.2	6.4	73
2.88	8.3	6.4	106
2.16	8.2	6.5	259
1.35	8.3	6.5	60
0.52	8.2	6.5	38
-0.29	8.2	6.5	44
-1.14	8.2	6.6	50
-2.06	8.2	6.9	77
-2.99	8.2	7.0	79
-3.80	8.2	7.1	83
-4.56	8.2	7.1	80
-5.61	8.2	7.1	70
-6.65	8.2	7.0	86
-7.62	8.2	7.1	89
-8.52	8.2	7.2	95
-9.37	8.2	7.2	84
-10.19	8.2	7.1	102
-11.20	8.2	7.2	105
-12.17	8.2	7.3	169
-13.12	8.2	7.5	182
-13.61	8.2	7.5	199
-13.66	8.2	7.5	1332

Depth Avg 8.2 6.9 85

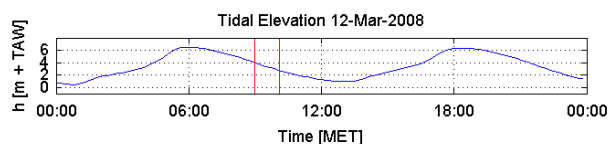


## Siltprofiler

Date & Time [MET]: 12/3/2008 10:06  
 Time after/before HT [MET]: 4:06  
 Coordinates [UTM-ED50] Easting: 588807  
 Coordinates [UTM-ED50] Northing: 5684386  
 Water-Bottom Interface Siltpr. [m TAW]: -13.66  
 Waterdepth 210 kHz Echo [m TAW]: -14.00  
 Waterdepth 33 kHz Echo [m TAW]: -13.97  
 Surface Elevation [m TAW]: 2.73

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.45	8.4	4.4	98
1.74	8.3	6.8	88
1.28	8.3	6.8	85
0.58	8.3	6.8	80
-0.05	8.3	6.8	91
-0.75	8.3	6.8	92
-1.49	8.3	6.8	118
-2.17	8.3	6.8	108
-2.97	8.3	6.8	115
-3.93	8.3	6.8	104
-4.74	8.3	6.8	111
-5.52	8.3	6.8	107
-6.27	8.3	6.8	114
-7.00	8.3	6.8	107
-7.90	8.2	6.8	118
-8.71	8.3	6.8	117
-9.68	8.3	6.8	136
-10.48	8.3	6.9	149
-11.19	8.3	7.0	149
-11.98	8.3	7.1	149
-12.76	8.2	7.0	147
-13.60	8.2	7.0	149
-13.66	8.2	7.0	593

Depth Avg 8.3 6.8 116



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

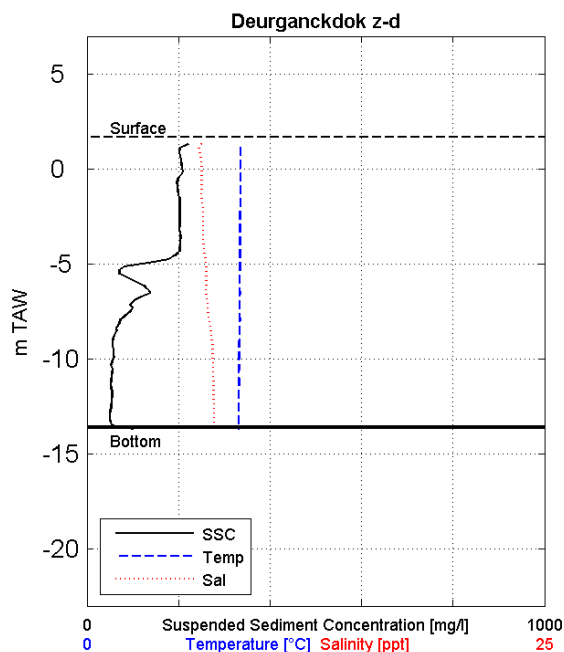
Sourcefile(s):

4042zd\_ctd.sil

4058Zd\_ctd.sil

Location:

Deurganckdok

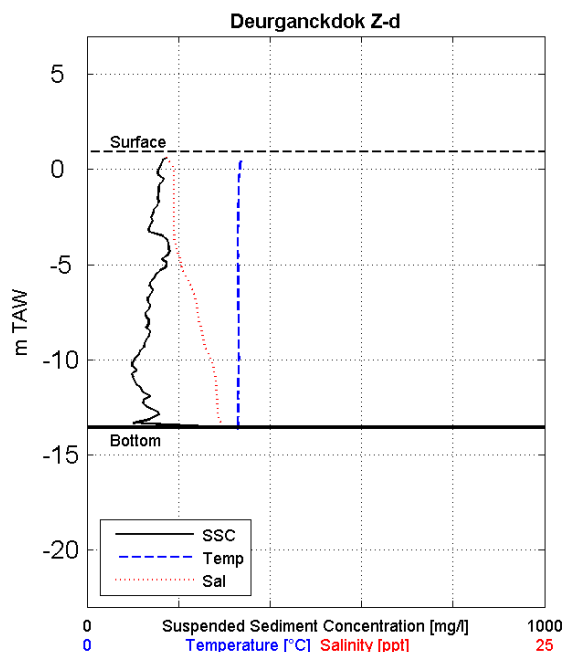


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:19  
 Time after/before HT [MET]: 5:19  
 Coordinates [UTM-ED50] Easting: 588787  
 Coordinates [UTM-ED50] Northing: 5684407  
 Water-Bottom Interface Siltpr. [m TAW]: -13.62  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 1.68

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.39	8.3	6.2	252
1.29	8.4	6.2	238
0.86	8.4	6.2	204
0.23	8.4	6.3	208
-0.54	8.4	6.3	196
-1.20	8.3	6.2	195
-1.68	8.3	6.3	202
-2.37	8.3	6.3	204
-3.28	8.4	6.3	203
-4.20	8.3	6.4	203
-4.99	8.3	6.5	98
-5.79	8.4	6.5	98
-6.86	8.3	6.5	101
-7.91	8.3	6.7	71
-8.70	8.3	6.8	59
-9.26	8.3	6.8	54
-9.78	8.3	6.9	59
-10.49	8.3	6.9	59
-11.41	8.3	6.9	54
-12.25	8.3	6.9	55
-12.91	8.3	6.9	48
-13.58	8.3	6.9	58
-13.62	8.2	6.9	144

Depth Avg    8.3    6.6    127

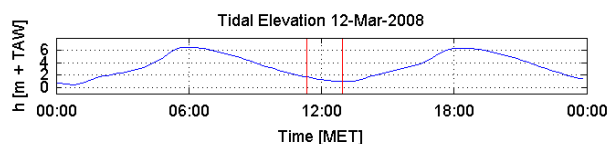


## Siltprofiler

Date & Time [MET]: 12/3/2008 12:57  
 Time after/before HT [MET]: 6:57  
 Coordinates [UTM-ED50] Easting: 588814  
 Coordinates [UTM-ED50] Northing: 5684409  
 Water-Bottom Interface Siltpr. [m TAW]: -13.56  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 0.93

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.65	8.4	4.3	173
0.29	8.3	4.6	157
-0.19	8.3	4.7	151
-0.65	8.3	4.7	149
-1.41	8.3	4.7	156
-2.00	8.2	4.7	153
-2.61	8.3	4.7	144
-3.20	8.3	4.7	134
-3.65	8.3	4.8	180
-4.28	8.2	4.9	172
-4.94	8.2	5.1	153
-5.58	8.2	5.4	153
-6.27	8.3	5.7	147
-7.02	8.3	6.0	161
-7.80	8.3	6.1	144
-8.46	8.3	6.2	126
-9.35	8.3	6.5	117
-10.16	8.3	6.8	101
-10.92	8.3	7.0	93
-11.75	8.3	7.1	126
-12.58	8.2	7.1	142
-13.39	8.2	7.4	107
-13.56	8.2	7.5	1302

Depth Avg    8.3    5.7    142



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

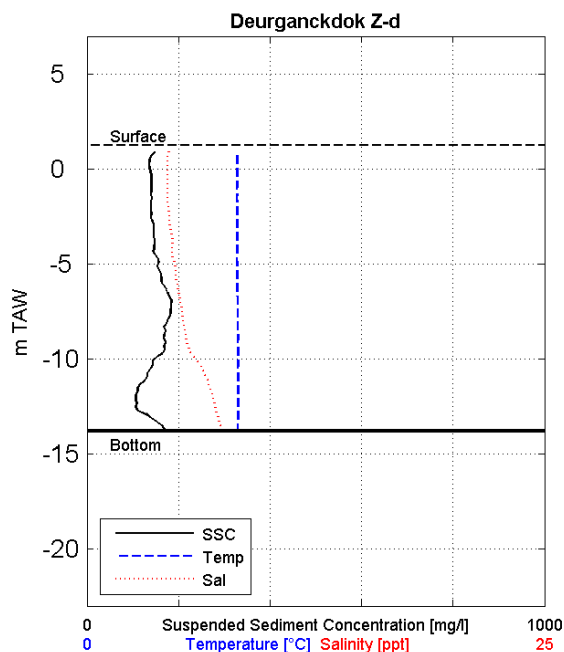
Sourcefile(s):

4073Zd\_ctd.sil

4088Zd\_ctd.sil

Location:

Deurganckdok

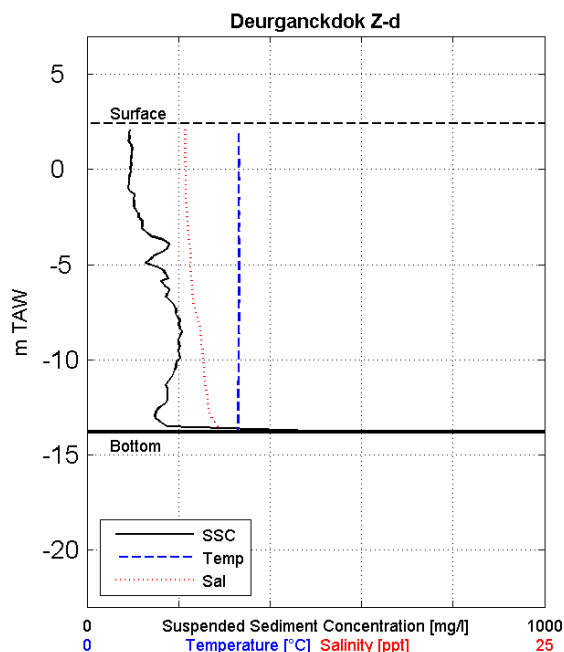


## Siltprofiler

Date & Time [MET]: 12/3/2008 13:46  
Time after/before HT [MET]: -4:33  
Coordinates [UTM-ED50] Easting: 588824  
Coordinates [UTM-ED50] Northing: 5684380  
Water-Bottom Interface Siltpr. [m TAW]: -13.80  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 1.23

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.95	8.2	4.5	144
0.85	8.2	4.4	139
0.09	8.2	4.4	136
-0.50	8.2	4.4	143
-1.27	8.2	4.4	141
-2.13	8.2	4.5	138
-2.95	8.2	4.5	145
-3.81	8.2	4.7	146
-4.71	8.2	4.7	153
-5.47	8.2	4.8	162
-6.26	8.2	5.0	171
-7.11	8.2	5.1	180
-7.93	8.3	5.2	177
-8.72	8.2	5.4	166
-9.46	8.3	5.5	170
-10.22	8.2	6.1	143
-10.95	8.2	6.5	132
-11.74	8.2	6.8	110
-12.51	8.3	7.0	106
-13.22	8.2	7.2	150
-13.67	8.2	7.3	169
-13.73	8.2	7.4	169
-13.80	8.2	7.4	160

Depth Avg 8.2 5.3 148

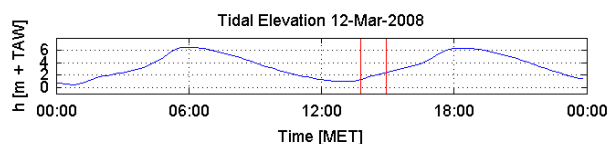


## Siltprofiler

Date & Time [MET]: 12/3/2008 14:56  
Time after/before HT [MET]: -3:23  
Coordinates [UTM-ED50] Easting: 588800  
Coordinates [UTM-ED50] Northing: 5684385  
Water-Bottom Interface Siltpr. [m TAW]: -13.81  
Waterdepth 210 kHz Echo [m TAW]: NaN  
Waterdepth 33 kHz Echo [m TAW]: NaN  
Surface Elevation [m TAW]: 2.44

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.15	8.2	5.3	111
1.94	8.3	5.3	89
1.37	8.3	5.4	94
0.79	8.3	5.4	97
0.25	8.3	5.4	94
-0.52	8.3	5.4	92
-1.21	8.3	5.4	103
-2.02	8.3	5.4	104
-2.67	8.3	5.5	118
-3.54	8.3	5.5	147
-4.32	8.3	5.7	167
-5.11	8.3	5.6	149
-5.89	8.3	5.7	156
-6.71	8.3	5.8	175
-7.59	8.3	6.0	193
-8.59	8.3	6.2	210
-9.75	8.3	6.3	202
-10.88	8.3	6.4	184
-12.03	8.3	6.6	173
-13.17	8.2	6.9	152
-13.73	8.2	7.3	181
-13.79	8.3	7.3	178
-13.81	8.2	7.3	1041

Depth Avg 8.3 5.9 153



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

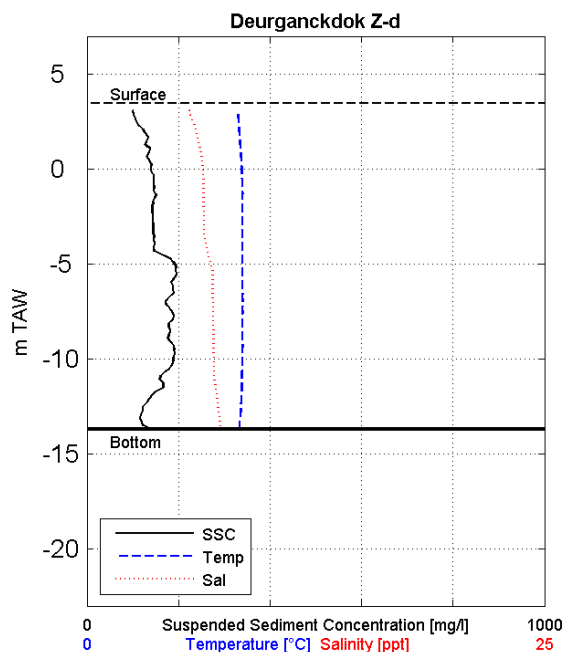
Sourcefile(s):

4104Zd\_ctd.sil

4119Zd\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 16:09

Time after/before HT [MET]: -2:10

Coordinates [UTM-ED50] Easting: 588813

Coordinates [UTM-ED50] Northing: 5684408

Water-Bottom Interface Siltpr. [m TAW]: -13.68

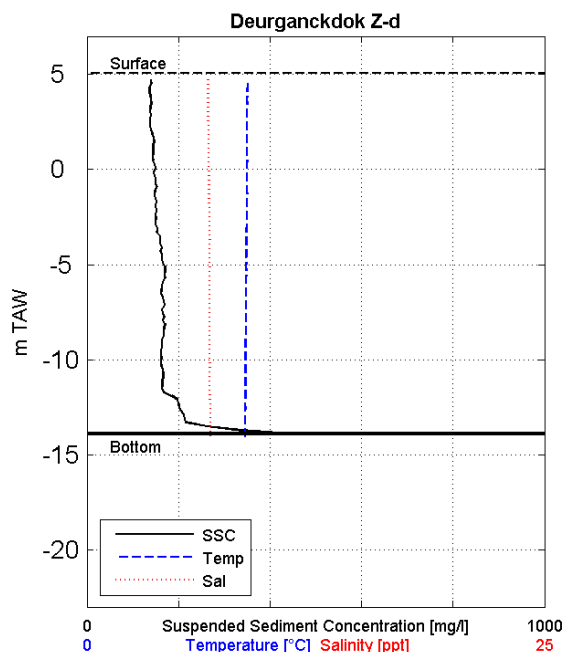
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 3.46

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.17	8.2	5.5	100
2.66	8.3	5.7	109
1.99	8.3	6.0	124
1.39	8.4	6.1	126
0.74	8.4	6.2	128
0.10	8.4	6.3	138
-0.57	8.4	6.3	144
-1.41	8.5	6.4	152
-2.16	8.5	6.4	139
-2.96	8.5	6.4	147
-3.78	8.5	6.4	143
-4.65	8.5	6.7	184
-5.90	8.6	6.9	182
-6.68	8.5	6.9	182
-7.63	8.5	6.9	190
-8.59	8.5	6.9	180
-9.56	8.4	6.9	190
-10.47	8.4	6.9	177
-11.31	8.4	7.0	166
-12.11	8.4	7.1	134
-12.86	8.4	7.2	120
-13.60	8.3	7.3	126
-13.68	8.3	7.3	10036

Depth Avg 8.4 6.6 158



**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:09

Time after/before HT [MET]: -1:10

Coordinates [UTM-ED50] Easting: 588813

Coordinates [UTM-ED50] Northing: 5684408

Water-Bottom Interface Siltpr. [m TAW]: -13.88

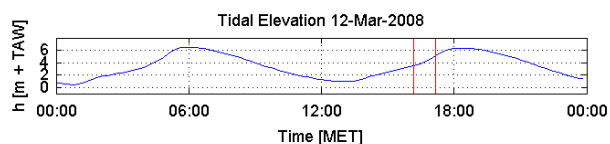
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 5.07

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.76	8.8	6.6	141
4.09	8.7	6.6	137
3.35	8.8	6.6	139
2.49	8.7	6.6	136
1.54	8.7	6.6	146
0.68	8.7	6.6	144
-0.07	8.7	6.6	143
-0.79	8.8	6.7	147
-1.65	8.8	6.6	151
-2.49	8.7	6.6	148
-3.27	8.7	6.7	152
-4.33	8.7	6.7	163
-5.47	8.7	6.7	169
-6.50	8.7	6.7	158
-7.49	8.7	6.7	164
-8.55	8.6	6.7	170
-9.61	8.6	6.7	161
-10.58	8.6	6.7	164
-11.33	8.7	6.7	164
-12.04	8.7	6.7	197
-12.92	8.6	6.7	212
-13.80	8.7	6.7	406
-13.88	8.7	6.7	436

Depth Avg 8.7 6.7 162



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

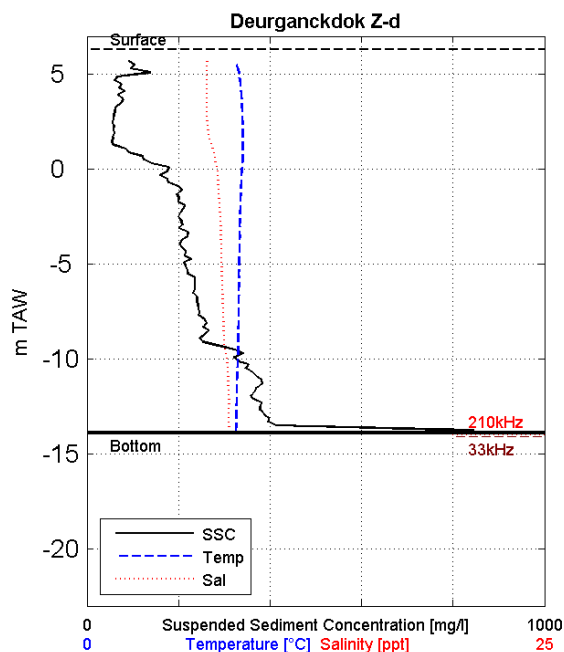
Sourcefile(s):

4134Zd\_ctd.sil

4150Zd\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 18:03

Time after/before HT [MET]: -0:16

Coordinates [UTM-ED50] Easting: 588798

Coordinates [UTM-ED50] Northing: 5684414

Water-Bottom Interface Siltpr. [m TAW]: -13.87

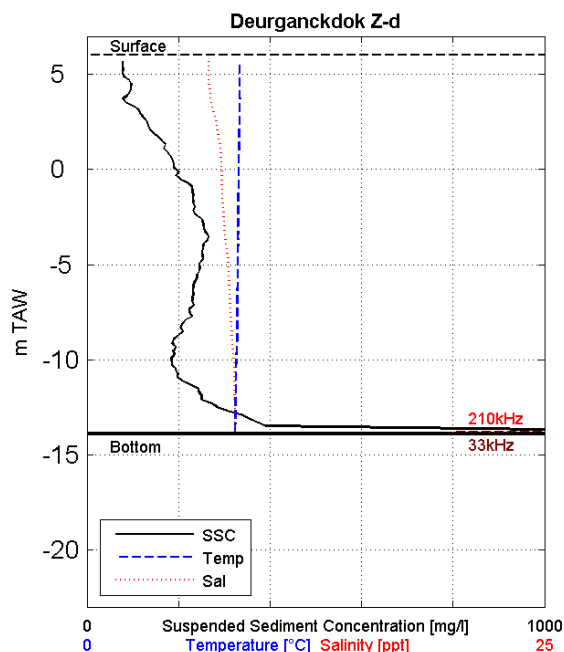
Waterdepth 210 kHz Echo [m TAW]: -13.99

Waterdepth 33 kHz Echo [m TAW]: -14.07

Surface Elevation [m TAW]: 6.32

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.75	8.1	6.5	85
4.82	8.3	6.5	62
3.72	8.5	6.5	59
2.48	8.5	6.6	57
1.27	8.4	6.8	54
0.06	8.5	7.1	176
-0.94	8.4	7.2	183
-1.89	8.3	7.2	211
-2.93	8.3	7.3	217
-4.05	8.3	7.3	194
-5.21	8.3	7.3	215
-6.40	8.3	7.4	218
-7.48	8.2	7.4	248
-8.37	8.3	7.4	251
-9.42	8.2	7.5	283
-10.45	8.2	7.7	315
-11.43	8.2	7.7	391
-12.24	8.1	7.7	391
-13.11	8.2	7.7	419
-13.73	8.2	7.7	433
-13.79	8.1	7.7	1528
-13.83	8.2	7.7	1296
-13.87	8.2	7.7	454

Depth Avg 8.3 7.2 214



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:22

Time after/before HT [MET]: 1:02

Coordinates [UTM-ED50] Easting: 588805

Coordinates [UTM-ED50] Northing: 5684408

Water-Bottom Interface Siltpr. [m TAW]: -13.89

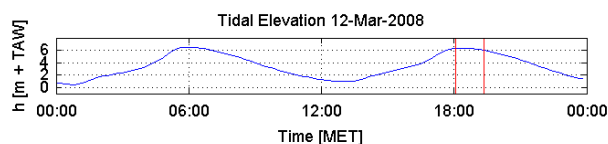
Waterdepth 210 kHz Echo [m TAW]: -13.79

Waterdepth 33 kHz Echo [m TAW]: -13.78

Surface Elevation [m TAW]: 5.99

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.69	8.3	6.6	80
4.90	8.4	6.6	79
3.95	8.4	6.7	89
2.87	8.3	7.0	119
1.85	8.3	7.2	148
0.48	8.2	7.3	188
-0.80	8.2	7.4	230
-1.94	8.2	7.4	238
-3.01	8.2	7.5	254
-4.33	8.2	7.7	249
-5.60	8.2	7.7	241
-6.72	8.2	7.8	239
-7.86	8.2	7.8	215
-9.14	8.2	7.9	182
-10.34	8.1	8.0	192
-11.46	8.1	8.1	240
-12.67	8.1	8.1	309
-13.72	8.1	8.1	1507
-13.76	8.1	8.1	532
-13.78	8.1	8.1	1231
-13.81	8.1	8.1	1013
-13.86	8.2	8.1	995
-13.89	8.1	8.1	1178

Depth Avg 8.2 7.5 213



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

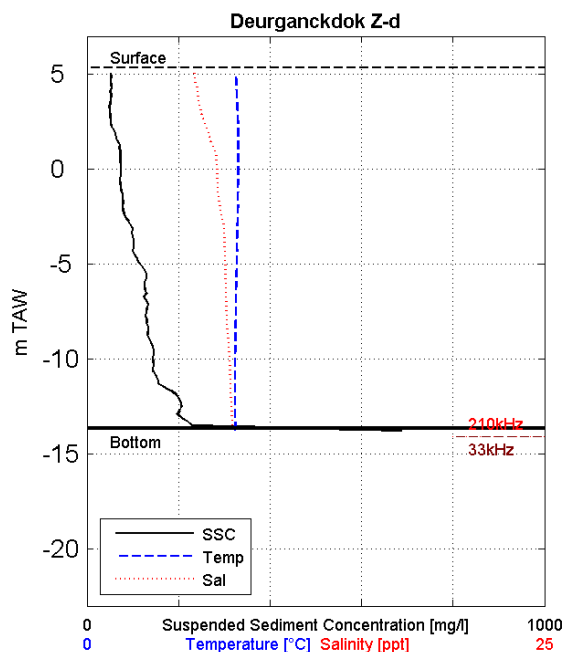
Sourcefile(s):

4165Zd\_ctd.sil

4180Zd\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:03

Time after/before HT [MET]: 1:43

Coordinates [UTM-ED50] Easting: 588830

Coordinates [UTM-ED50] Northing: 5684410

Water-Bottom Interface Siltpr. [m TAW]: -13.66

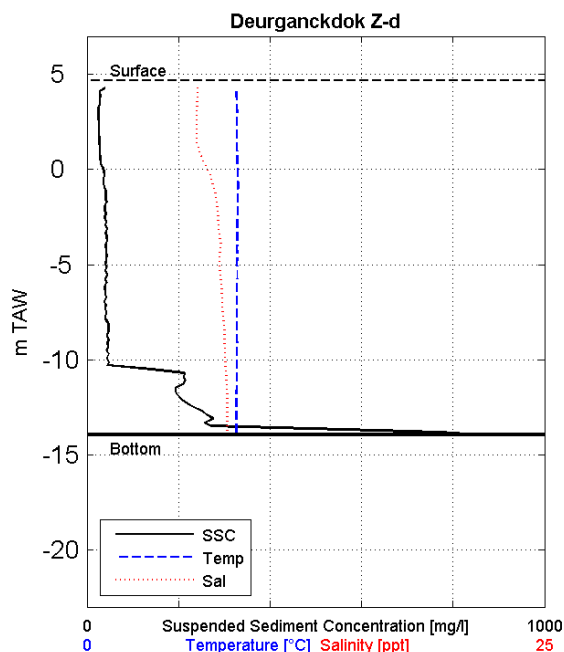
Waterdepth 210 kHz Echo [m TAW]: -14.10

Waterdepth 33 kHz Echo [m TAW]: -14.06

Surface Elevation [m TAW]: 5.35

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.06	8.1	5.8	52
4.62	8.1	5.9	51
3.98	8.1	6.0	51
3.16	8.2	6.2	49
2.13	8.2	6.5	55
1.15	8.3	6.9	70
0.09	8.2	7.1	73
-0.83	8.2	7.1	76
-1.71	8.3	7.2	76
-2.69	8.2	7.4	88
-3.80	8.2	7.5	101
-4.76	8.2	7.5	110
-5.71	8.1	7.6	129
-6.50	8.1	7.6	132
-7.26	8.2	7.6	128
-8.09	8.1	7.6	128
-9.03	8.1	7.7	143
-9.91	8.1	7.8	142
-10.72	8.0	7.8	148
-11.67	8.1	7.8	182
-12.60	8.0	7.9	204
-13.50	8.1	7.9	230
-13.66	8.0	8.0	150

Depth Avg 8.2 7.3 110



**Siltprofiler**

Date & Time [MET]: 12/3/2008 20:47

Time after/before HT [MET]: 2:27

Coordinates [UTM-ED50] Easting: 588806

Coordinates [UTM-ED50] Northing: 5684411

Water-Bottom Interface Siltpr. [m TAW]: -13.95

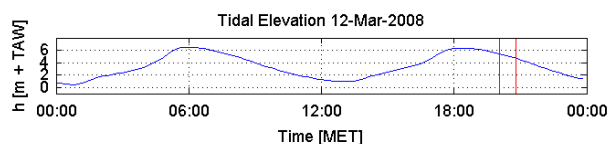
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 4.68

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.39	8.1	6.0	52
4.31	8.1	6.0	26
4.25	8.1	6.0	28
3.71	8.2	6.0	23
2.69	8.1	6.0	28
1.71	8.2	6.0	27
0.53	8.2	6.3	27
-0.90	8.3	6.9	28
-2.25	8.2	7.1	43
-3.54	8.2	7.3	49
-4.81	8.2	7.2	40
-5.98	8.2	7.3	48
-7.16	8.1	7.4	46
-8.27	8.1	7.5	36
-9.62	8.2	7.5	36
-10.74	8.2	7.6	243
-12.02	8.1	7.6	214
-13.19	8.1	7.7	271
-13.79	8.1	7.7	1512
-13.82	8.1	7.7	595
-13.86	8.2	7.7	1235
-13.90	8.2	7.7	689
-13.95	8.2	7.7	662

Depth Avg 8.2 7.0 78



Data Processed by:



In association with :



I/RA/11283/07.091/MSA



## **F.15 Location Ze**

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

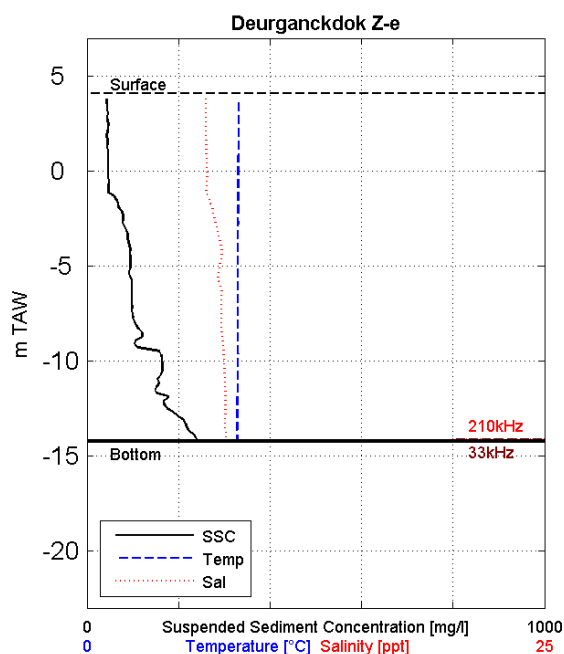
Sourcefile(s):

4011Ze\_ctd.sil

4026Ze\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 08:54

Time after/before HT [MET]: 2:54

Coordinates [UTM-ED50] Easting: 588859

Coordinates [UTM-ED50] Northing: 5684488

Water-Bottom Interface Siltpr. [m TAW]: -14.22

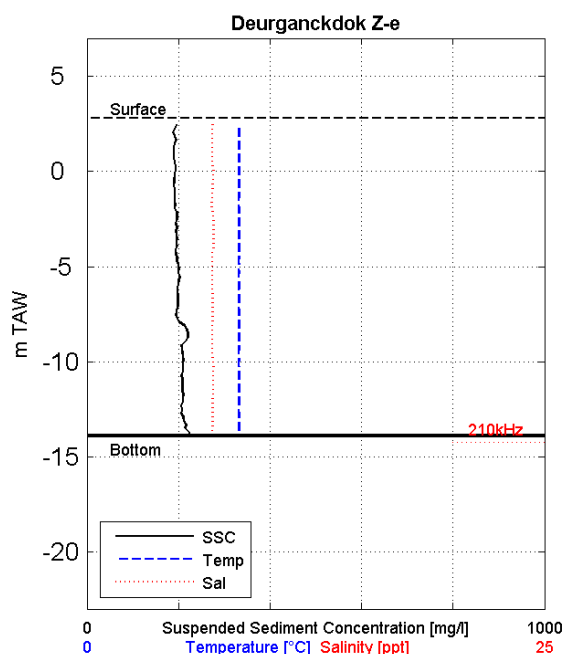
Waterdepth 210 kHz Echo [m TAW]: -14.10

Waterdepth 33 kHz Echo [m TAW]: -14.10

Surface Elevation [m TAW]: 4.09

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.81	8.3	6.5	41
3.12	8.3	6.5	44
2.29	8.3	6.5	46
1.14	8.3	6.5	44
0.19	8.3	6.5	45
-0.79	8.3	6.5	48
-1.85	8.2	6.8	65
-2.67	8.2	7.0	76
-3.39	8.2	7.2	88
-4.05	8.2	7.3	95
-4.62	8.2	7.3	92
-5.40	8.2	7.2	92
-6.15	8.2	7.3	96
-6.82	8.2	7.3	98
-7.64	8.2	7.3	97
-8.42	8.2	7.3	113
-9.36	8.2	7.4	105
-10.24	8.3	7.5	163
-11.20	8.2	7.5	161
-12.21	8.2	7.6	165
-13.11	8.2	7.5	212
-14.08	8.2	7.6	242
-14.22	8.2	7.6	244

Depth Avg 8.2 7.1 102



**Siltprofiler**

Date & Time [MET]: 12/3/2008 10:02

Time after/before HT [MET]: 4:02

Coordinates [UTM-ED50] Easting: 588851

Coordinates [UTM-ED50] Northing: 5684489

Water-Bottom Interface Siltpr. [m TAW]: -13.90

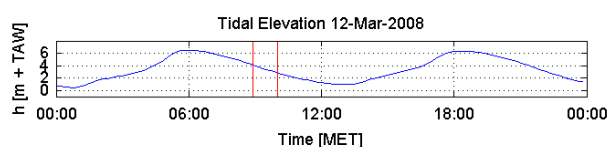
Waterdepth 210 kHz Echo [m TAW]: -14.25

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 2.80

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
2.51	8.3	6.8	195
1.74	8.3	6.8	195
1.02	8.3	6.8	193
0.34	8.3	6.8	192
-0.33	8.4	6.9	190
-1.04	8.3	6.8	190
-1.80	8.3	6.8	191
-2.60	8.3	6.9	197
-3.45	8.3	6.9	197
-4.15	8.3	6.9	191
-4.94	8.3	6.8	201
-5.71	8.3	6.8	199
-6.66	8.3	6.9	204
-7.60	8.3	6.8	195
-8.23	8.3	6.8	216
-8.96	8.3	6.8	214
-9.98	8.3	6.9	204
-11.06	8.3	6.9	212
-12.08	8.3	6.8	208
-13.05	8.2	6.8	210
-13.73	8.3	6.8	228
-13.83	8.3	6.8	224
-13.90	8.3	6.8	219

Depth Avg 8.3 6.8 200



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

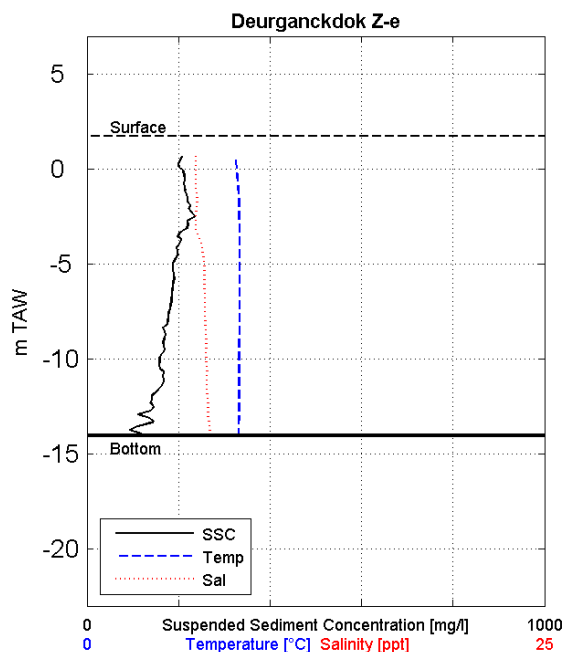
Sourcefile(s):

4041Ze\_ctd.sil

4057Ze\_ctd.sil

Location:

Deurganckdok

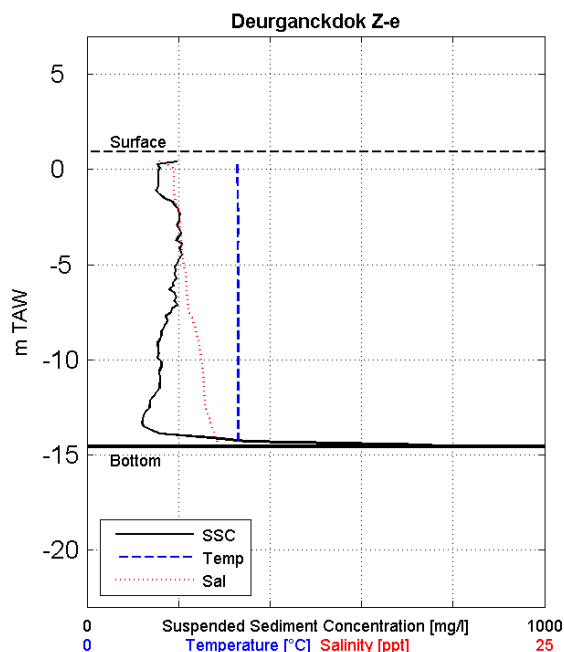


## Siltprofiler

Date & Time [MET]: 12/3/2008 11:15  
 Time after/before HT [MET]: 5:15  
 Coordinates [UTM-ED50] Easting: 588843  
 Coordinates [UTM-ED50] Northing: 5684495  
 Water-Bottom Interface Siltpr. [m TAW]: -14.01  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 1.71

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.75	8.1	5.9	212
-0.24	8.2	5.9	212
-0.99	8.3	5.9	208
-1.60	8.2	6.0	217
-2.37	8.3	5.9	227
-3.12	8.3	5.9	220
-3.84	8.3	6.2	205
-4.65	8.3	6.4	194
-5.45	8.3	6.4	189
-6.24	8.3	6.4	186
-7.12	8.3	6.4	184
-8.01	8.3	6.5	179
-8.70	8.3	6.5	173
-9.35	8.3	6.5	168
-10.22	8.3	6.5	156
-11.22	8.3	6.5	141
-11.97	8.3	6.5	141
-12.49	8.3	6.6	149
-13.22	8.3	6.6	151
-13.87	8.2	6.7	118
-13.91	8.3	6.7	76
-13.95	8.3	6.7	95
-14.01	8.3	6.8	73

Depth Avg    8.3    6.3    182

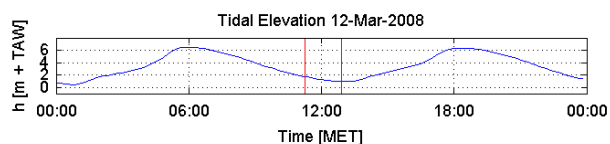


## Siltprofiler

Date & Time [MET]: 12/3/2008 12:54  
 Time after/before HT [MET]: 6:54  
 Coordinates [UTM-ED50] Easting: 588831  
 Coordinates [UTM-ED50] Northing: 5684494  
 Water-Bottom Interface Siltpr. [m TAW]: -14.58  
 Waterdepth 210 kHz Echo [m TAW]: NaN  
 Waterdepth 33 kHz Echo [m TAW]: NaN  
 Surface Elevation [m TAW]: 0.94

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.49	8.2	3.8	179
0.02	8.2	4.7	169
-0.33	8.2	4.7	149
-0.72	8.3	4.7	150
-1.41	8.2	4.8	147
-2.06	8.2	5.0	196
-2.71	8.3	5.0	197
-3.71	8.3	5.1	178
-4.43	8.3	5.2	209
-5.10	8.3	5.3	181
-6.13	8.2	5.4	189
-7.07	8.2	5.5	188
-7.66	8.3	5.7	174
-8.62	8.2	6.0	157
-9.76	8.3	6.2	154
-10.46	8.2	6.3	163
-11.19	8.3	6.3	164
-12.29	8.3	6.4	136
-13.34	8.2	6.8	116
-14.04	8.2	7.0	206
-14.48	8.2	7.1	807
-14.55	8.2	7.1	1082
-14.58	8.2	7.2	921

Depth Avg    8.2    5.6    179



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

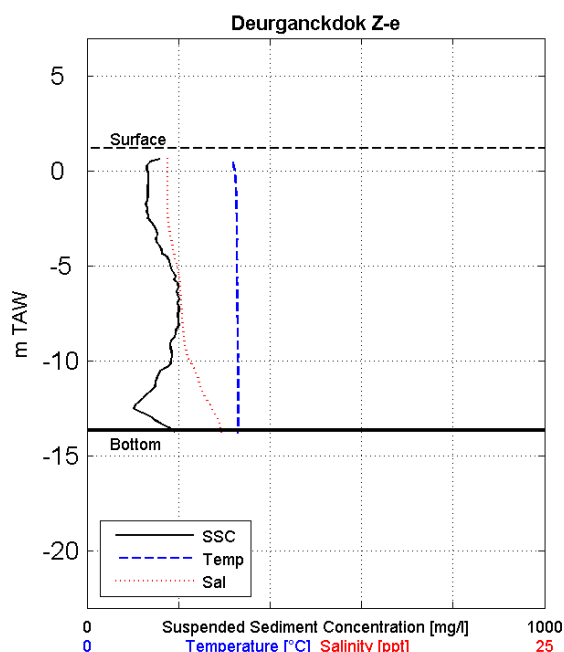
Sourcefile(s):

4072Ze\_ctd.sil

4087Ze\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 13:42

Time after/before HT [MET]: -4:37

Coordinates [UTM-ED50] Easting: 588857

Coordinates [UTM-ED50] Northing: 5684444

Water-Bottom Interface Siltpr. [m TAW]: -13.65

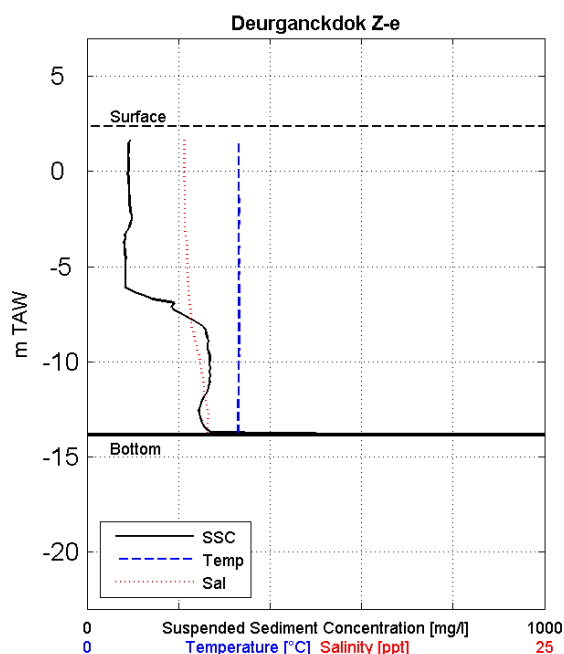
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 1.20

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
0.76	8.0	4.4	170
0.21	8.0	4.4	132
-0.16	8.1	4.4	132
-0.79	8.1	4.4	132
-1.40	8.2	4.4	133
-2.11	8.1	4.4	129
-2.91	8.1	4.5	150
-3.95	8.2	4.7	155
-4.71	8.2	4.8	179
-5.54	8.3	5.0	189
-6.24	8.2	5.1	189
-6.86	8.2	5.1	198
-7.54	8.2	5.2	199
-8.19	8.2	5.2	197
-8.88	8.2	5.3	178
-9.69	8.2	5.5	187
-10.45	8.3	5.9	163
-11.24	8.3	6.2	146
-11.90	8.3	6.5	121
-12.51	8.3	6.8	105
-13.02	8.3	7.1	140
-13.62	8.2	7.3	176
-13.65	8.2	7.3	259

Depth Avg 8.2 5.2 161



**Siltprofiler**

Date & Time [MET]: 12/3/2008 14:53

Time after/before HT [MET]: -3:26

Coordinates [UTM-ED50] Easting: 588871

Coordinates [UTM-ED50] Northing: 5684486

Water-Bottom Interface Siltpr. [m TAW]: -13.86

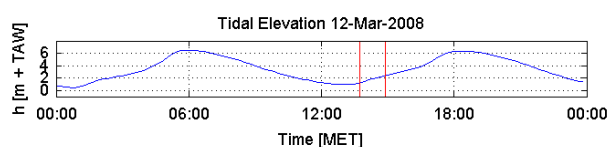
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 2.39

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
1.69	8.3	5.3	100
1.06	8.3	5.3	92
0.42	8.3	5.3	91
-0.18	8.3	5.3	91
-0.99	8.3	5.3	91
-1.76	8.3	5.3	94
-2.48	8.3	5.3	96
-3.28	8.3	5.4	79
-4.04	8.3	5.5	81
-4.78	8.3	5.5	85
-5.46	8.3	5.5	83
-6.18	8.3	5.5	86
-6.87	8.3	5.6	184
-7.58	8.3	5.7	217
-8.35	8.3	5.8	259
-9.10	8.3	6.0	263
-9.94	8.3	6.2	267
-10.75	8.3	6.3	266
-11.60	8.2	6.4	261
-12.35	8.3	6.5	247
-13.06	8.2	6.6	250
-13.76	8.3	6.6	270
-13.86	8.3	6.6	237

Depth Avg 8.3 5.7 162



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

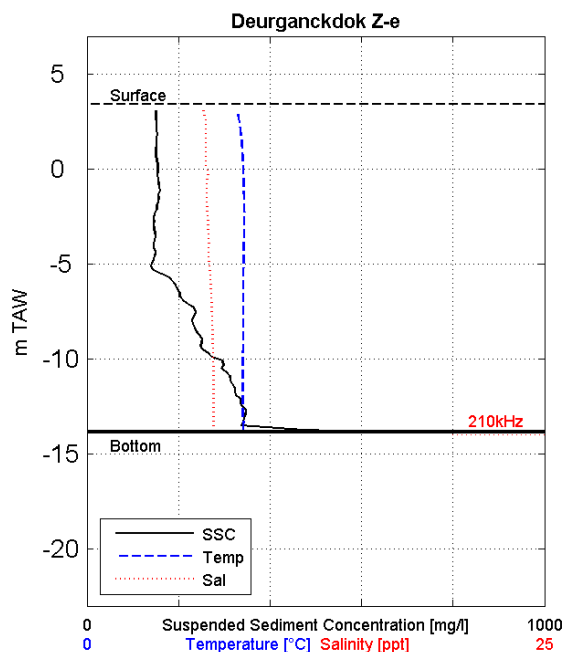
Sourcefile(s):

4103Ze\_ctd.sil

4118Ze\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 16:06

Time after/before HT [MET]: -2:13

Coordinates [UTM-ED50] Easting: 588853

Coordinates [UTM-ED50] Northing: 5684473

Water-Bottom Interface Siltpr. [m TAW]: -13.86

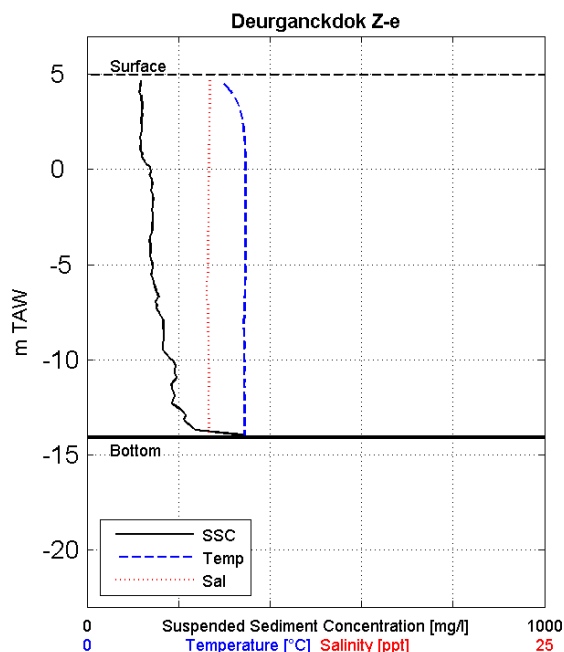
Waterdepth 210 kHz Echo [m TAW]: -13.97

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 3.41

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
3.13	8.2	6.3	148
2.33	8.4	6.5	149
1.29	8.5	6.5	151
0.45	8.5	6.5	153
-0.25	8.5	6.6	152
-0.90	8.5	6.5	159
-1.80	8.6	6.5	154
-2.80	8.6	6.6	145
-3.75	8.6	6.6	146
-4.60	8.5	6.6	144
-5.46	8.5	6.7	155
-6.38	8.5	6.8	197
-7.30	8.5	6.8	241
-8.20	8.5	6.8	232
-9.15	8.5	6.9	252
-10.04	8.6	6.9	291
-10.89	8.5	6.9	312
-11.79	8.5	6.9	322
-12.69	8.5	6.9	346
-13.55	8.5	6.9	335
-13.74	8.5	6.9	347
-13.81	8.5	6.9	810
-13.86	8.6	6.9	605

Depth Avg    8.5    6.7    211



**Siltprofiler**

Date & Time [MET]: 12/3/2008 17:06

Time after/before HT [MET]: -1:13

Coordinates [UTM-ED50] Easting: 588862

Coordinates [UTM-ED50] Northing: 5684458

Water-Bottom Interface Siltpr. [m TAW]: -14.08

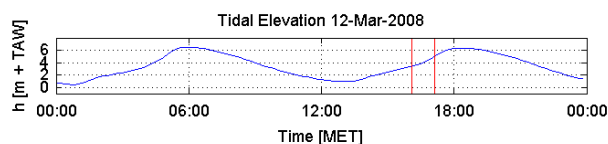
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 4.96

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.67	7.2	6.7	120
3.90	8.0	6.7	119
3.03	8.4	6.7	120
1.92	8.6	6.7	115
0.65	8.7	6.7	118
-0.47	8.6	6.6	142
-1.45	8.7	6.6	138
-2.37	8.7	6.6	142
-3.25	8.7	6.6	141
-4.50	8.7	6.6	138
-5.65	8.6	6.6	142
-6.63	8.6	6.6	159
-7.54	8.6	6.6	159
-8.75	8.6	6.6	168
-10.01	8.6	6.6	186
-11.24	8.6	6.6	184
-12.40	8.6	6.6	186
-13.57	8.6	6.7	232
-13.95	8.6	6.6	241
-13.97	8.6	6.6	225
-14.00	8.6	6.6	320
-14.04	8.6	6.6	221
-14.08	8.6	6.6	228

Depth Avg    8.5    6.6    153



Data Processed by:



In association with:



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

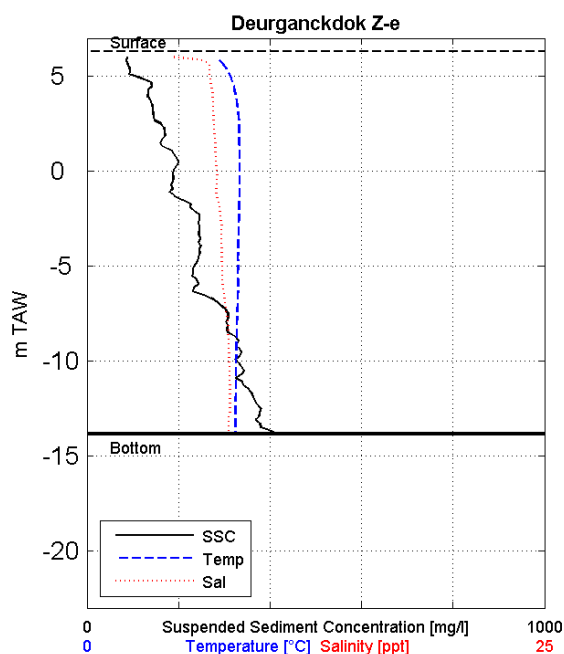
Sourcefile(s):

4133Ze\_ctd.sil

4149Ze\_ctd.sil

Location:

Deurganckdok



**Siltprofiler**

Date & Time [MET]: 12/3/2008 18:00

Time after/before HT [MET]: -0:19

Coordinates [UTM-ED50] Easting: 588861

Coordinates [UTM-ED50] Northing: 5684486

Water-Bottom Interface Siltpr. [m TAW]: -13.84

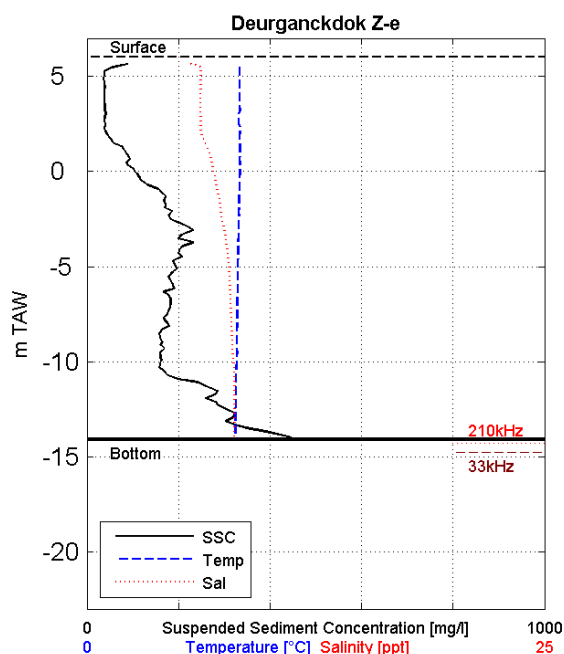
Waterdepth 210 kHz Echo [m TAW]: NaN

Waterdepth 33 kHz Echo [m TAW]: NaN

Surface Elevation [m TAW]: 6.30

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
6.02	7.0	4.7	89
5.12	7.8	6.7	89
3.91	8.1	6.9	128
2.75	8.3	6.9	147
1.49	8.3	7.0	163
0.27	8.3	7.1	193
-1.01	8.3	7.0	186
-2.28	8.3	7.3	244
-3.48	8.2	7.3	246
-4.74	8.2	7.4	241
-5.77	8.2	7.4	248
-7.02	8.2	7.5	290
-8.28	8.1	7.7	301
-9.35	8.1	7.7	332
-10.29	8.1	7.8	342
-11.22	8.1	7.8	339
-12.30	8.1	7.8	364
-13.27	8.1	7.8	384
-13.72	8.1	7.8	414
-13.75	8.1	7.8	402
-13.77	8.1	7.8	395
-13.82	8.1	7.8	397
-13.84	8.1	7.8	406

Depth Avg    8.2    7.3    241



**Siltprofiler**

Date & Time [MET]: 12/3/2008 19:18

Time after/before HT [MET]: 0:58

Coordinates [UTM-ED50] Easting: 588850

Coordinates [UTM-ED50] Northing: 5684498

Water-Bottom Interface Siltpr. [m TAW]: -14.11

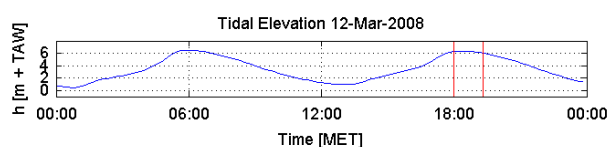
Waterdepth 210 kHz Echo [m TAW]: -14.30

Waterdepth 33 kHz Echo [m TAW]: -14.78

Surface Elevation [m TAW]: 6.04

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.75	8.3	4.9	177
5.15	8.3	6.2	36
4.27	8.3	6.2	39
3.25	8.3	6.2	41
2.18	8.4	6.2	38
1.11	8.4	6.6	83
-0.03	8.3	6.9	102
-1.14	8.3	7.2	178
-2.32	8.3	7.3	189
-3.36	8.3	7.5	207
-4.39	8.2	7.7	195
-5.44	8.2	7.8	217
-6.53	8.2	7.8	188
-7.68	8.2	7.9	168
-8.87	8.2	7.9	142
-9.85	8.1	8.0	176
-10.91	8.2	8.1	175
-11.92	8.2	8.1	265
-12.89	8.1	8.1	335
-13.74	8.1	8.0	425
-14.00	8.2	8.0	459
-14.11	8.1	8.0	442

Depth Avg    8.2    7.3    160



Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

11283

Equipment(s):

SiltProfiler & CTD-Diver

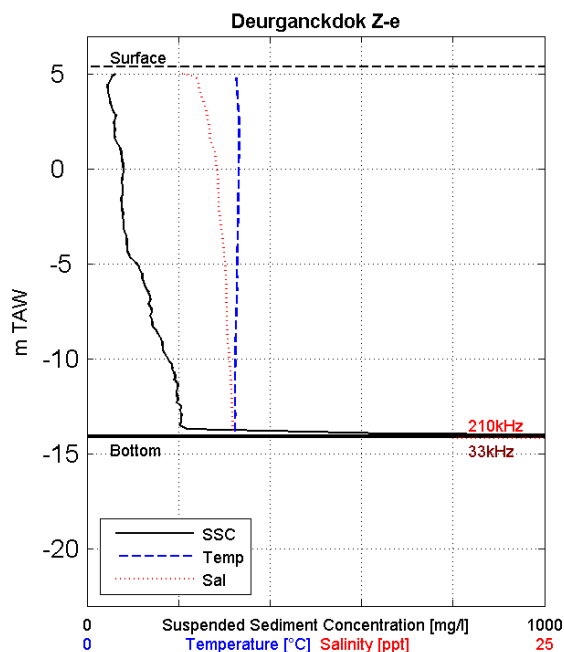
Sourcefile(s):

4164Ze\_ctd.sil

4179Ze\_ctd.sil

Location:

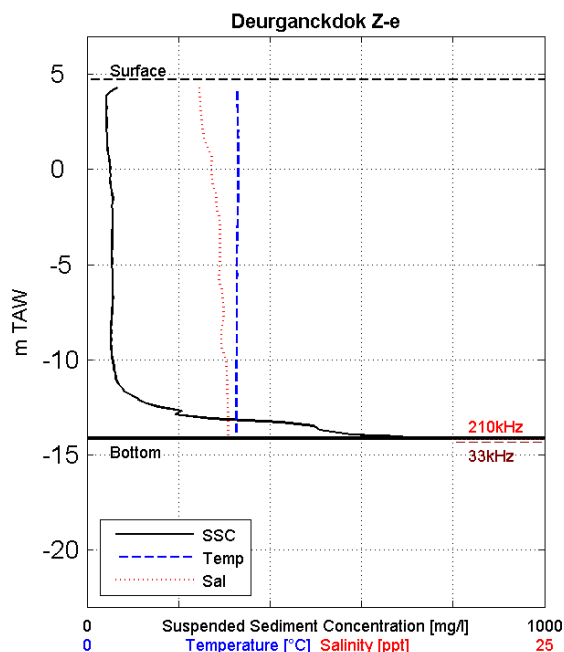
Deurganckdok



## Siltprofiler

Date & Time [MET]: 12/3/2008 20:01  
 Time after/before HT [MET]: 1:41  
 Coordinates [UTM-ED50] Easting: 588814  
 Coordinates [UTM-ED50] Northing: 5684480  
 Water-Bottom Interface Siltpr. [m TAW]: -14.09  
 Waterdepth 210 kHz Echo [m TAW]: -14.19  
 Waterdepth 33 kHz Echo [m TAW]: -14.15  
 Surface Elevation [m TAW]: 5.39

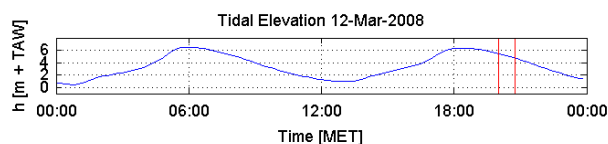
Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
5.01	8.1	5.2	60
4.19	8.1	6.1	41
3.22	8.2	6.5	55
2.18	8.3	6.7	59
1.21	8.3	6.8	70
0.60	8.3	7.0	75
-0.06	8.3	7.1	80
-0.87	8.2	7.1	82
-1.82	8.2	7.2	75
-2.79	8.2	7.3	78
-3.58	8.2	7.4	89
-4.33	8.2	7.5	88
-5.25	8.2	7.5	112
-6.37	8.2	7.6	132
-7.42	8.1	7.6	142
-8.31	8.2	7.6	134
-9.29	8.1	7.7	163
-10.54	8.1	7.8	188
-11.63	8.1	7.9	196
-12.61	8.1	7.9	210
-13.60	8.1	8.0	203
-14.01	8.1	8.0	321
-14.09	8.1	8.0	1883
<b>Depth Avg</b>			
	<b>8.2</b>	<b>7.3</b>	<b>121</b>



## Siltprofiler

Date & Time [MET]: 12/3/2008 20:45  
 Time after/before HT [MET]: 2:25  
 Coordinates [UTM-ED50] Easting: 588857  
 Coordinates [UTM-ED50] Northing: 5684495  
 Water-Bottom Interface Siltpr. [m TAW]: -14.16  
 Waterdepth 210 kHz Echo [m TAW]: -14.21  
 Waterdepth 33 kHz Echo [m TAW]: -14.35  
 Surface Elevation [m TAW]: 4.72

Z [mTAW]	Temp [°C]	Sal [ppt]	SS [mg/l]
4.39	8.2	6.2	62
3.72	8.2	6.2	44
3.07	8.2	6.2	41
2.21	8.2	6.3	44
1.31	8.3	6.5	37
0.26	8.3	6.8	51
-0.68	8.3	6.8	51
-1.63	8.2	7.0	55
-2.59	8.2	7.2	55
-3.62	8.2	7.3	59
-4.64	8.2	7.3	52
-5.51	8.2	7.2	50
-6.37	8.2	7.4	54
-7.28	8.2	7.4	54
-8.39	8.1	7.3	52
-9.44	8.1	7.4	54
-10.40	8.2	7.6	60
-11.38	8.2	7.6	69
-12.41	8.1	7.7	145
-13.52	8.1	7.7	500
-14.03	8.1	7.7	737
-14.10	8.2	7.7	660
-14.16	8.2	7.7	684
<b>Depth Avg</b>			
	<b>8.2</b>	<b>7.1</b>	<b>83</b>



Data Processed by:



In association with :



I/RA/11283/07.091/MSA





## **APPENDIX G.**

### **DEPTH AVERAGE FIGURES AND TABLES**



## G.1 Tables

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Top 50% Depth Avg			Bottom 50% Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
4001Xa	02:05	08:05	8.0	7.5	123	7.9	6.9	93	8.1	8.0	154
4020Xa	03:30	09:30	8.3	7.1	108	8.3	6.9	81	8.2	7.4	134
4035Xa	04:47	10:47	8.3	6.8	185	8.3	6.7	160	8.3	6.9	210
4051Xa	05:48	11:48	8.3	6.7	87	8.3	6.4	127	8.3	6.9	46
4066Xa	-04:59	13:20	8.2	5.4	128	8.2	5.1	143	8.3	5.8	111
4081Xa	-04:00	14:19	8.2	5.8	153	8.2	4.9	129	8.2	6.8	178
4097Xa	-02:41	15:38	8.2	6.3	146	8.2	5.8	136	8.3	6.7	155
4112Xa	-01:40	16:39	8.3	6.8	162	8.4	6.5	106	8.3	7.1	218
4127Xa	-00:45	17:34	8.5	6.7	112	8.6	6.4	65	8.5	7.1	160
4143Xa	00:29	18:49	8.1	7.3	264	8.0	7.3	166	8.2	7.4	364
4158Xa	01:24	19:44	8.1	7.4	246	8.1	7.0	129	8.1	7.7	363
4173Xa	02:07	20:27	8.2	7.2	89	8.3	6.9	71	8.2	7.6	107
<b>AVERAGE</b>			<b>8.2</b>	<b>6.8</b>	<b>150</b>	<b>8.2</b>	<b>6.4</b>	<b>117</b>	<b>8.3</b>	<b>7.1</b>	<b>183</b>
4002Xb	02:10	08:10	8.2	7.3	110	8.3	6.9	73	8.2	7.8	148
4019Xb	03:26	09:26	8.2	7.1	104	8.2	7.0	77	8.2	7.3	131
4034Xb	04:43	10:43	8.3	6.9	85	8.3	6.8	114	8.3	7.0	56
4050Xb	05:46	11:46	8.3	6.2	152	8.4	6.0	175	8.3	6.4	129
4065Xb	-05:01	13:18	8.1	5.2	159	8.0	4.9	154	8.2	5.5	163
4080Xb	-04:04	14:15	8.2	5.6	144	8.2	4.8	125	8.2	6.3	163
4096Xb	-02:44	15:35	8.1	6.3	148	8.0	5.9	155	8.2	6.7	141
4111Xb	-01:44	16:35	8.1	6.9	117	7.9	6.6	82	8.2	7.3	153
4126Xb	-00:48	17:31	8.4	6.8	118	8.3	6.6	78	8.4	7.0	158

<b>Siltprofiles Name</b>	<b>Time after HW [hh:mm]</b>	<b>Time [hh:mm MET]</b>	<b>Depth Avg</b>			<b>Top 50% Depth Avg</b>			<b>Bottom 50% Depth Avg</b>		
			<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>
4142Xb	00:25	18:45	8.3	7.1	216	8.3	7.0	160	8.3	7.2	273
4157Xb	01:22	19:42	8.2	7.3	172	8.2	6.8	75	8.2	7.7	269
4172Xb	02:05	20:25	8.2	7.2	87	8.2	6.8	65	8.2	7.6	109
<b>AVERAGE</b>			<b>8.2</b>	<b>6.7</b>	<b>134</b>	<b>8.2</b>	<b>6.3</b>	<b>111</b>	<b>8.2</b>	<b>7.0</b>	<b>158</b>
4003Xc	02:16	08:16	8.2	7.5	156	8.2	6.9	109	8.1	8.0	204
4018Xc	03:23	09:23	8.2	7.1	129	8.2	7.0	114	8.2	7.2	145
4033Xc	04:41	10:41	8.3	6.9	81	8.3	6.9	85	8.3	7.0	77
4049Xc	05:43	11:43	8.3	6.1	172	8.3	5.9	199	8.3	6.2	146
4064Xc	-05:03	13:16	8.1	5.1	177	8.0	4.9	173	8.2	5.3	180
4079Xc	-04:09	14:10	8.2	5.3	182	8.2	4.8	129	8.2	5.9	234
4095Xc	-02:47	15:32	8.6	6.2	221	8.8	5.8	236	8.5	6.5	207
4110Xc	-01:47	16:32	8.3	6.8	166	8.2	6.5	147	8.3	7.1	184
4125Xc	-00:50	17:29	8.5	6.8	235	8.5	6.6	212	8.5	6.9	258
4141Xc	00:21	18:41	8.1	7.1	292	8.1	6.9	156	8.2	7.3	429
4156Xc	01:20	19:40	8.1	7.5	145	8.0	7.2	106	8.1	7.8	185
4171Xc	02:02	20:22	7.9	7.5	110	7.8	7.3	73	8.0	7.8	145
<b>AVERAGE</b>			<b>8.2</b>	<b>6.7</b>	<b>172</b>	<b>8.2</b>	<b>6.4</b>	<b>145</b>	<b>8.2</b>	<b>6.9</b>	<b>200</b>
4004Xd	02:21	08:21	8.1	7.6	200	8.1	7.3	93	8.1	8.0	307
4017Xd	03:20	09:20	8.2	6.9	119	8.2	6.9	109	8.3	6.9	129
4032Xd	04:37	10:37	8.3	6.9	88	8.3	6.9	85	8.3	6.9	91
4048Xd	05:39	11:39	8.3	6.0	178	8.3	5.7	195	8.3	6.2	160
4063Xd	-05:07	13:12	8.2	5.0	181	8.2	4.9	175	8.2	5.1	187
4078Xd	-04:12	14:07	8.2	5.3	185	8.2	4.8	132	8.2	5.7	238
4094Xd	-02:49	15:30	8.9	6.2	286	9.0	5.9	242	8.8	6.6	329
4109Xd	-01:50	16:29	8.6	6.7	161	8.6	6.6	149	8.6	6.9	173

<b>Siltprofiles Name</b>	<b>Time after HW [hh:mm]</b>	<b>Time [hh:mm MET]</b>	<b>Depth Avg</b>			<b>Top 50% Depth Avg</b>			<b>Bottom 50% Depth Avg</b>		
			<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>
4124Xd	-00:53	17:26	8.6	6.6	248	8.6	6.6	210	8.6	6.7	286
4140Xd	00:16	18:36	8.1	7.4	272	8.1	7.0	190	8.2	7.7	354
4155Xd	01:18	19:38	8.2	7.6	201	8.3	7.3	191	8.2	7.9	212
4170Xd	02:00	20:20	8.0	7.6	130	7.9	7.2	74	8.0	7.9	186
<b>AVERAGE</b>			<b>8.3</b>	<b>6.7</b>	<b>187</b>	<b>8.3</b>	<b>6.4</b>	<b>154</b>	<b>8.3</b>	<b>6.9</b>	<b>221</b>
4005Xe	02:25	08:25	8.2	7.6	303	8.2	7.4	135	8.2	7.8	469
4016Xe	03:16	09:16	8.2	7.0	136	8.2	6.9	112	8.3	7.1	160
4031Xe	04:28	10:28	8.3	6.6	163	8.3	6.6	166	8.3	6.7	159
4047Xe	05:37	11:37	8.1	5.8	217	8.0	5.4	221	8.3	6.1	213
4062Xe	-05:09	13:10	8.2	4.9	211	8.2	4.8	185	8.2	5.1	237
4077Xe	-04:17	14:02	8.2	5.1	193	8.2	4.7	124	8.2	5.4	262
4093Xe	-02:52	15:27	8.8	6.1	277	8.5	5.8	163	9.0	6.4	389
4108Xe	-01:54	16:25	8.6	6.6	223	8.6	6.5	146	8.6	6.6	298
4123Xe	-00:56	17:23	8.4	6.8	276	8.5	6.7	223	8.3	6.9	328
4139Xe	00:11	18:31	8.0	7.5	274	7.9	7.2	232	8.1	7.8	316
4154Xe	01:16	19:36	8.2	7.5	165	8.3	7.1	136	8.2	7.9	195
4169Xe	01:57	20:17	8.0	7.7	119	8.0	7.4	67	8.0	8.0	172
<b>AVERAGE</b>			<b>8.3</b>	<b>6.6</b>	<b>213</b>	<b>8.2</b>	<b>6.4</b>	<b>159</b>	<b>8.3</b>	<b>6.8</b>	<b>267</b>
4010Ya	02:47	08:47	8.1	7.1	93	8.0	6.8	59	8.2	7.4	127
4025Ya	03:56	09:56	8.3	7.0	102	8.3	6.8	55	8.2	7.2	149
4040Ya	05:09	11:09	8.2	7.0	66	8.2	6.9	81	8.2	7.2	51
4056Ya	06:47	12:47	8.3	6.3	167	8.3	5.5	153	8.2	7.1	181
4071Ya	-04:41	13:38	8.2	6.0	169	8.2	5.0	147	8.2	6.9	191
4086Ya	-03:34	14:45	8.2	6.1	133	8.2	5.2	118	8.2	6.9	149
4102Ya	-02:21	15:58	8.3	6.5	133	8.4	5.9	136	8.3	7.1	130

<b>Siltprofiles Name</b>	<b>Time after HW [hh:mm]</b>	<b>Time [hh:mm MET]</b>	<b>Depth Avg</b>			<b>Top 50% Depth Avg</b>			<b>Bottom 50% Depth Avg</b>		
			<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>
4117Ya	-01:19	17:00	8.5	6.7	137	8.5	6.4	97	8.4	7.1	178
4132Ya	-00:25	17:54	8.4	6.9	164	8.5	6.6	108	8.4	7.3	219
4148Ya	00:51	19:11	8.1	7.2	211	8.0	6.9	113	8.2	7.4	310
4163Ya	01:37	19:57	8.2	7.4	90	8.3	6.9	59	8.2	7.9	120
4178Ya	02:21	20:41	8.2	7.0	57	8.2	6.6	34	8.2	7.4	81
<b>AVERAGE</b>			<b>8.3</b>	<b>6.8</b>	<b>127</b>	<b>8.3</b>	<b>6.3</b>	<b>97</b>	<b>8.2</b>	<b>7.2</b>	<b>157</b>
4009Yb	02:44	08:44	8.2	7.0	96	8.3	6.7	63	8.2	7.3	129
4024Yb	03:50	09:50	8.3	7.0	130	8.3	6.8	68	8.2	7.2	191
4039Yb	05:05	11:05	8.3	7.0	57	8.3	6.9	60	8.3	7.1	54
4055Yb	06:45	12:45	8.3	6.1	146	8.3	5.4	170	8.3	6.8	123
4070Yb	-04:45	13:34	8.2	5.4	160	8.2	4.8	155	8.2	6.0	164
4085Yb	-03:37	14:42	8.3	5.8	183	8.3	5.1	112	8.3	6.5	257
4101Yb	-02:25	15:54	8.4	6.4	142	8.4	5.9	148	8.3	6.9	135
4116Yb	-01:23	16:56	8.3	6.7	131	8.3	6.4	100	8.4	7.1	162
4131Yb	-00:29	17:50	8.4	7.0	128	8.5	6.7	79	8.3	7.3	178
4147Yb	00:47	19:07	8.3	7.1	213	8.3	6.8	119	8.3	7.3	309
4162Yb	01:35	19:55	8.2	7.3	129	8.3	6.8	67	8.2	7.9	190
4177Yb	02:19	20:39	8.2	7.2	149	8.3	7.0	65	8.2	7.5	233
<b>AVERAGE</b>			<b>8.3</b>	<b>6.7</b>	<b>139</b>	<b>8.3</b>	<b>6.3</b>	<b>101</b>	<b>8.3</b>	<b>7.1</b>	<b>177</b>
4008Yc	02:40	08:40	8.0	7.1	93	7.8	6.9	63	8.1	7.3	124
4023Yc	03:46	09:46	8.3	7.0	121	8.3	7.0	109	8.2	7.1	134
4038Yc	05:01	11:01	8.3	7.0	138	8.3	6.9	55	8.3	7.0	220
4054Yc	06:43	12:43	8.2	5.7	157	8.1	5.2	165	8.3	6.3	149
4069Yc	-04:49	13:30	8.2	5.3	165	8.2	4.9	162	8.2	5.8	168
4084Yc	-03:41	14:38	8.3	5.8	181	8.3	5.3	130	8.3	6.2	230

<b>Siltprofiles Name</b>	<b>Time after HW [hh:mm]</b>	<b>Time [hh:mm MET]</b>	<b>Depth Avg</b>			<b>Top 50% Depth Avg</b>			<b>Bottom 50% Depth Avg</b>		
			<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>
4100Yc	-02:27	15:52	8.3	6.6	202	8.2	6.2	200	8.4	6.9	204
4115Yc	-01:27	16:52	8.5	6.6	113	8.4	6.4	76	8.6	6.9	151
4130Yc	-00:31	17:48	8.4	6.9	174	8.4	6.7	94	8.3	7.1	254
4146Yc	00:43	19:03	8.3	7.1	250	8.3	6.7	121	8.2	7.5	379
4161Yc	01:33	19:53	8.2	7.3	126	8.3	6.7	65	8.2	7.9	187
4176Yc	02:17	20:37	8.2	7.1	90	8.2	6.9	57	8.2	7.4	122
<b>AVERAGE</b>			<b>8.3</b>	<b>6.6</b>	<b>151</b>	<b>8.2</b>	<b>6.3</b>	<b>108</b>	<b>8.3</b>	<b>7.0</b>	<b>194</b>
4007Yd	02:35	08:35	8.2	7.1	84	8.3	6.8	57	8.2	7.4	110
4022Yd	03:42	09:42	8.2	7.1	172	8.3	7.0	164	8.2	7.1	179
4036Yd	04:52	10:52	8.3	6.9	56	8.3	6.9	49	8.3	6.9	63
4053Yd	06:40	12:40	8.1	5.8	180	8.0	5.3	175	8.2	6.3	185
4068Yd	-04:51	13:28	8.2	4.9	183	8.2	4.7	171	8.2	5.1	195
4083Yd	-03:46	14:33	8.3	5.6	236	8.2	5.2	122	8.3	6.1	350
4099Yd	-02:30	15:49	8.7	6.3	305	8.7	6.1	253	8.8	6.6	358
4114Yd	-01:30	16:49	8.6	6.7	150	8.6	6.7	137	8.6	6.8	164
4129Yd	-00:34	17:45	8.2	6.8	146	8.1	6.6	96	8.4	7.0	196
4145Yd	00:40	19:00	8.2	7.3	286	8.3	7.0	184	8.2	7.7	388
4160Yd	01:30	19:50	8.2	7.4	147	8.3	6.9	89	8.2	7.9	206
4175Yd	02:14	20:34	8.2	7.4	202	8.2	7.1	60	8.2	7.6	342
<b>AVERAGE</b>			<b>8.3</b>	<b>6.6</b>	<b>179</b>	<b>8.3</b>	<b>6.4</b>	<b>130</b>	<b>8.3</b>	<b>6.9</b>	<b>228</b>
4006Ye	02:32	08:32	8.2	7.3	127	8.2	6.8	64	8.2	7.7	191
4021Ye	03:38	09:38	8.2	6.9	134	8.2	6.9	117	8.3	7.0	150
4037Ye	04:55	10:55	8.3	6.8	91	8.3	6.7	104	8.3	6.8	78
4052Ye	05:55	11:55	8.3	5.8	159	8.3	5.6	174	8.3	6.1	145
4067Ye	-04:55	13:24	8.2	5.1	179	8.2	4.7	168	8.2	5.4	191

<b>Siltprofiles Name</b>	<b>Time after HW [hh:mm]</b>	<b>Time [hh:mm MET]</b>	<b>Depth Avg</b>			<b>Top 50% Depth Avg</b>			<b>Bottom 50% Depth Avg</b>		
			<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>
4082Ye	-03:55	14:24	8.2	5.5	237	8.2	5.2	134	8.3	5.8	340
4098Ye	-02:34	15:45	8.8	6.5	360	8.7	6.4	206	8.9	6.6	513
4113Ye	-01:34	16:45	8.5	6.6	154	8.4	6.6	130	8.6	6.7	179
4128Ye	-00:39	17:40	8.1	7.1	246	8.1	7.0	189	8.2	7.3	304
4144Ye	00:36	18:56	8.0	7.6	249	7.9	7.2	194	8.1	8.0	305
4159Ye	01:28	19:48	8.2	7.5	151	8.3	7.1	107	8.2	7.9	195
4174Ye	02:12	20:32	8.2	7.3	159	8.2	6.9	61	8.1	7.7	257
<b>AVERAGE</b>			<b>8.3</b>	<b>6.7</b>	<b>187</b>	<b>8.3</b>	<b>6.4</b>	<b>137</b>	<b>8.3</b>	<b>6.9</b>	<b>237</b>
4015Za	03:09	09:09	8.2	7.0	73	8.2	6.7	47	8.2	7.3	100
4030Za	04:22	10:22	8.2	7.1	48	8.1	7.0	44	8.2	7.3	53
4045Za	05:26	11:26	8.3	7.1	59	8.3	7.0	58	8.2	7.3	60
4061Za	-05:16	13:03	8.3	6.4	141	8.3	5.7	143	8.3	7.1	140
4076Za	-04:24	13:55	8.2	6.0	222	8.2	5.0	141	8.2	7.1	303
4091Za	-03:10	15:09	8.3	6.0	139	8.3	5.5	135	8.3	6.4	142
4107Za	-02:02	16:17	8.5	6.6	171	8.4	6.1	138	8.5	7.1	204
4122Za	-01:02	17:17	8.6	6.7	145	8.6	6.5	119	8.5	6.9	171
4137Za	-00:07	18:12	8.3	7.1	310	8.4	6.8	195	8.2	7.4	425
4153Za	01:10	19:30	8.3	7.3	122	8.4	6.8	62	8.2	7.7	181
4168Za	01:50	20:10	8.3	7.0	69	8.3	6.6	33	8.3	7.3	104
4183Za	02:34	20:54	8.2	7.0	79	8.2	6.6	49	8.2	7.4	109
<b>AVERAGE</b>			<b>8.3</b>	<b>6.8</b>	<b>132</b>	<b>8.3</b>	<b>6.4</b>	<b>97</b>	<b>8.3</b>	<b>7.2</b>	<b>166</b>
4014Zb	03:05	09:05	8.3	6.9	75	8.3	6.6	45	8.2	7.2	104
4029Zb	04:17	10:17	8.3	6.9	54	8.3	6.8	43	8.3	7.0	64
4044Zb	05:24	11:24	8.3	7.0	56	8.3	6.9	46	8.2	7.1	65
4060Zb	-05:18	13:01	8.1	6.1	138	8.1	5.2	174	8.2	6.9	103



<b>Siltprofiles Name</b>	<b>Time after HW [hh:mm]</b>	<b>Time [hh:mm MET]</b>	<b>Depth Avg</b>			<b>Top 50% Depth Avg</b>			<b>Bottom 50% Depth Avg</b>		
			<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>
4075Zb	-04:27	13:52	8.2	5.5	137	8.2	4.7	139	8.3	6.2	135
4090Zb	-03:13	15:06	8.3	5.8	148	8.3	5.6	138	8.3	6.1	159
4106Zb	-02:05	16:14	8.4	6.6	170	8.3	6.2	142	8.5	7.0	198
4121Zb	-01:05	17:14	8.5	6.7	118	8.6	6.5	101	8.5	7.0	134
4136Zb	-00:10	18:09	8.1	7.1	246	8.0	6.9	167	8.2	7.4	324
4152Zb	01:07	19:27	8.3	7.3	175	8.4	6.7	81	8.2	7.9	268
4167Zb	01:48	20:08	8.3	7.0	83	8.3	6.6	52	8.2	7.3	116
4182Zb	02:32	20:52	8.2	7.0	144	8.2	6.6	51	8.2	7.4	238
<b>AVERAGE</b>			<b>8.3</b>	<b>6.7</b>	<b>129</b>	<b>8.3</b>	<b>6.3</b>	<b>98</b>	<b>8.3</b>	<b>7.0</b>	<b>159</b>
4013Zc	03:01	09:01	8.2	6.9	67	8.3	6.6	37	8.2	7.1	97
4028Zc	04:12	10:12	8.3	6.9	54	8.3	6.8	48	8.3	6.9	61
4043Zc	05:21	11:21	8.3	7.0	54	8.3	6.9	54	8.3	7.0	53
4059Zc	06:59	12:59	8.2	6.0	176	8.2	5.1	169	8.2	6.8	183
4074Zc	-04:30	13:49	8.2	5.3	136	8.2	4.6	135	8.2	6.0	136
4089Zc	-03:17	15:02	8.3	6.0	142	8.3	5.6	123	8.3	6.3	161
4105Zc	-02:08	16:11	8.4	6.5	148	8.4	5.9	117	8.4	7.1	178
4120Zc	-01:08	17:12	8.5	6.8	144	8.5	6.6	133	8.5	6.9	155
4135Zc	-00:13	18:06	8.4	7.0	182	8.6	6.7	101	8.3	7.2	263
4151Zc	01:05	19:25	8.3	7.4	193	8.4	6.9	118	8.2	7.9	268
4166Zc	01:46	20:06	8.2	7.1	75	8.2	6.7	44	8.1	7.6	107
4181Zc	02:29	20:49	8.2	7.0	82	8.3	6.7	50	8.2	7.3	115
<b>AVERAGE</b>			<b>8.3</b>	<b>6.7</b>	<b>121</b>	<b>8.3</b>	<b>6.3</b>	<b>94</b>	<b>8.3</b>	<b>7.0</b>	<b>148</b>
4012Zd	02:58	08:58	8.2	6.9	85	8.2	6.7	56	8.2	7.2	114
4027Zd	04:06	10:06	8.3	6.8	116	8.3	6.6	101	8.3	6.9	131
4042zd	05:19	11:19	8.3	6.6	127	8.4	6.3	186	8.3	6.8	69

<b>Siltprofiles Name</b>	<b>Time after HW [hh:mm]</b>	<b>Time [hh:mm MET]</b>	<b>Depth Avg</b>			<b>Top 50% Depth Avg</b>			<b>Bottom 50% Depth Avg</b>		
			<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>	<b>Temp [°C]</b>	<b>Sal [ppt]</b>	<b>SS Conc [mg/l]</b>
4058Zd	06:57	12:57	8.3	5.7	142	8.3	4.9	157	8.3	6.6	127
4073Zd	-04:33	13:46	8.2	5.3	148	8.2	4.6	146	8.2	6.1	150
4088Zd	-03:23	14:56	8.3	5.9	153	8.3	5.5	117	8.3	6.3	190
4104Zd	-02:10	16:09	8.4	6.6	158	8.4	6.3	139	8.5	7.0	177
4119Zd	-01:10	17:09	8.7	6.7	162	8.7	6.6	146	8.7	6.7	179
4134Zd	-00:16	18:03	8.3	7.2	214	8.4	6.8	125	8.2	7.5	302
4150Zd	01:02	19:22	8.2	7.5	213	8.3	7.1	167	8.2	7.9	259
4165Zd	01:43	20:03	8.2	7.3	110	8.2	6.8	69	8.1	7.7	151
4180Zd	02:27	20:47	8.2	7.0	78	8.2	6.6	34	8.2	7.5	122
<b>AVERAGE</b>			<b>8.3</b>	<b>6.6</b>	<b>142</b>	<b>8.3</b>	<b>6.2</b>	<b>120</b>	<b>8.3</b>	<b>7.0</b>	<b>164</b>
4011Ze	02:54	08:54	8.2	7.1	102	8.2	6.7	61	8.2	7.4	143
4026Ze	04:02	10:02	8.3	6.8	200	8.3	6.8	193	8.3	6.8	207
4041Ze	05:15	11:15	8.3	6.3	182	8.2	6.1	207	8.3	6.5	158
4057Ze	06:54	12:54	8.2	5.6	179	8.2	5.0	186	8.3	6.3	171
4072Ze	-04:37	13:42	8.2	5.2	161	8.1	4.6	153	8.2	5.9	169
4087Ze	-03:26	14:53	8.3	5.7	162	8.3	5.3	89	8.3	6.1	236
4103Ze	-02:13	16:06	8.5	6.7	211	8.5	6.5	150	8.5	6.9	273
4118Ze	-01:13	17:06	8.5	6.6	153	8.5	6.6	130	8.6	6.6	177
4133Ze	-00:19	18:00	8.2	7.3	241	8.1	6.9	172	8.2	7.6	309
4149Ze	00:58	19:18	8.2	7.3	160	8.3	6.7	104	8.2	7.9	217
4164Ze	01:41	20:01	8.2	7.3	121	8.2	6.8	69	8.1	7.7	174
4179Ze	02:25	20:45	8.2	7.1	83	8.2	6.7	50	8.2	7.5	116
<b>AVERAGE</b>			<b>8.3</b>	<b>6.6</b>	<b>163</b>	<b>8.3</b>	<b>6.2</b>	<b>130</b>	<b>8.3</b>	<b>6.9</b>	<b>196</b>

## G.2 Figures

# Through tide measurements Siltprofiler 12 March 2008

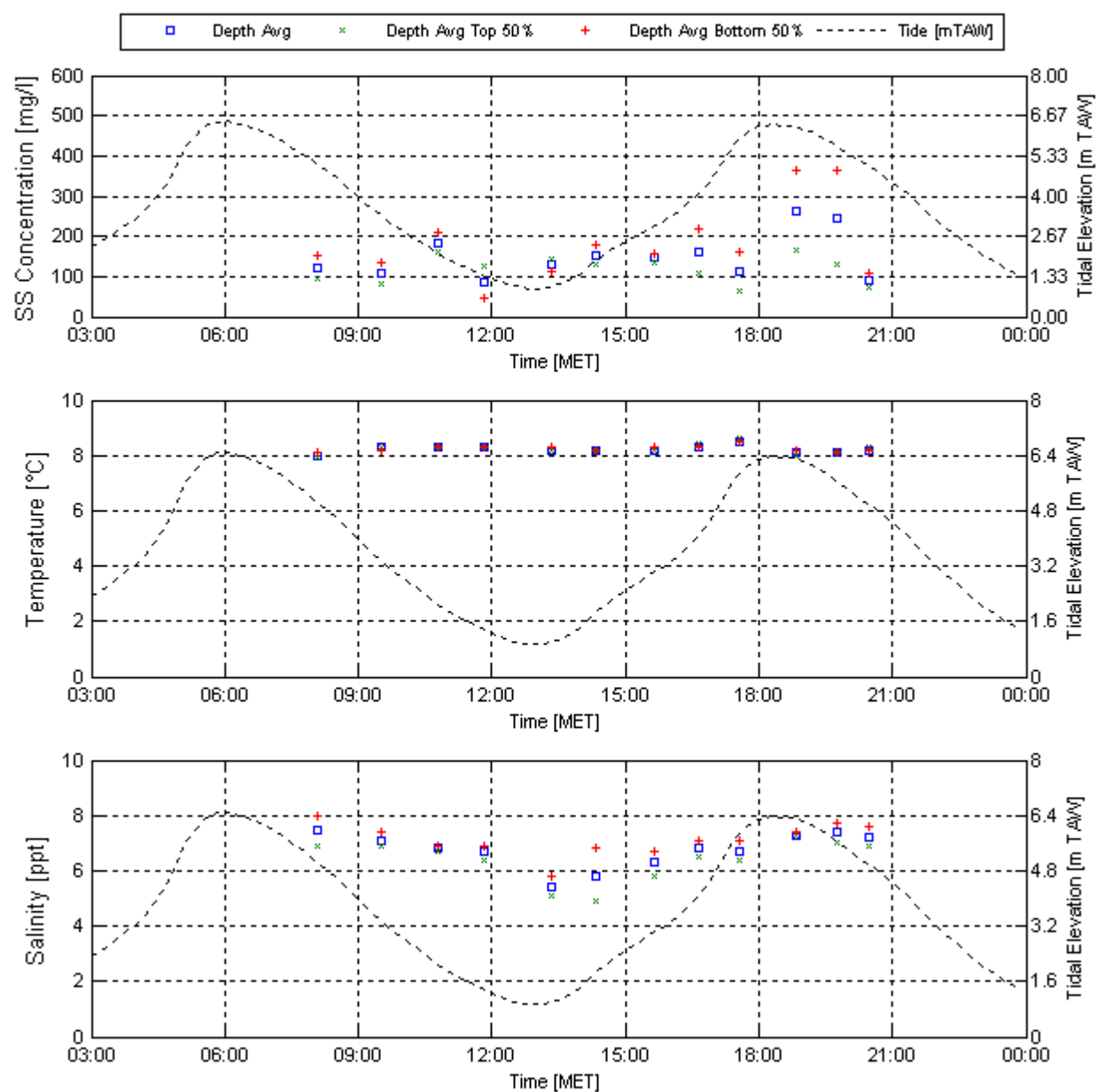
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Xa



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

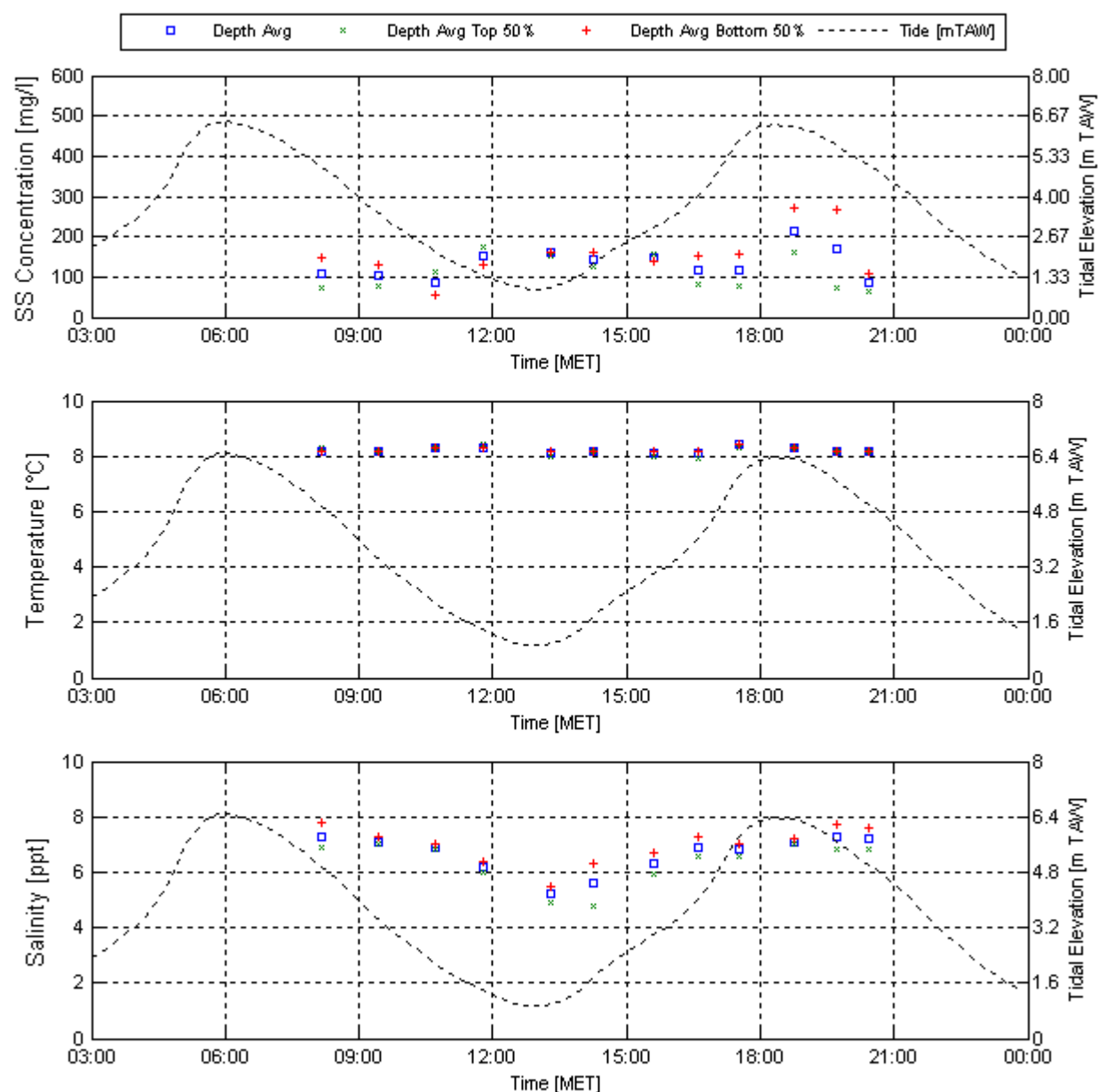
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Xb



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

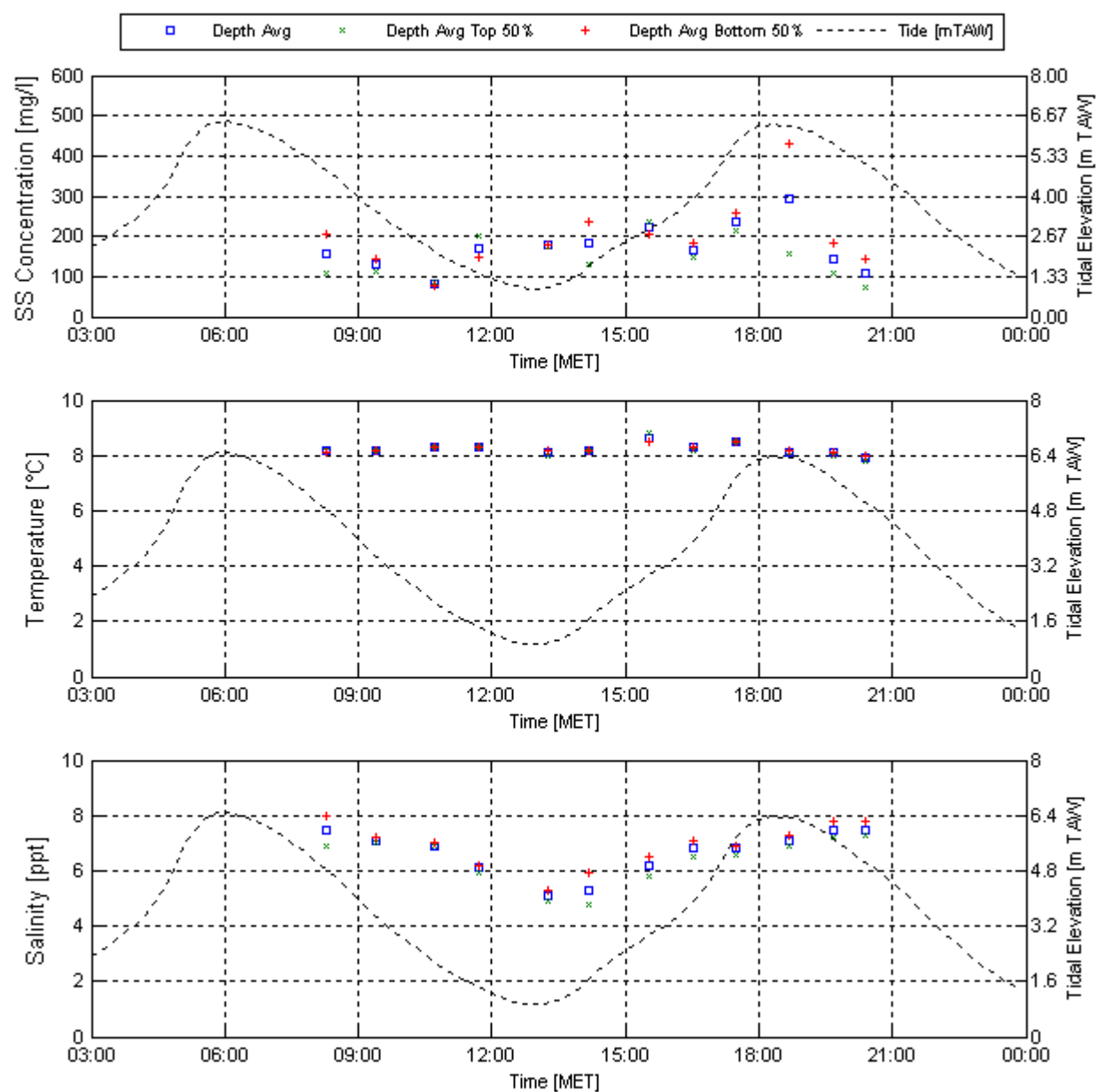
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Xc



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA

# Through tide measurements Siltprofiler 12 March 2008

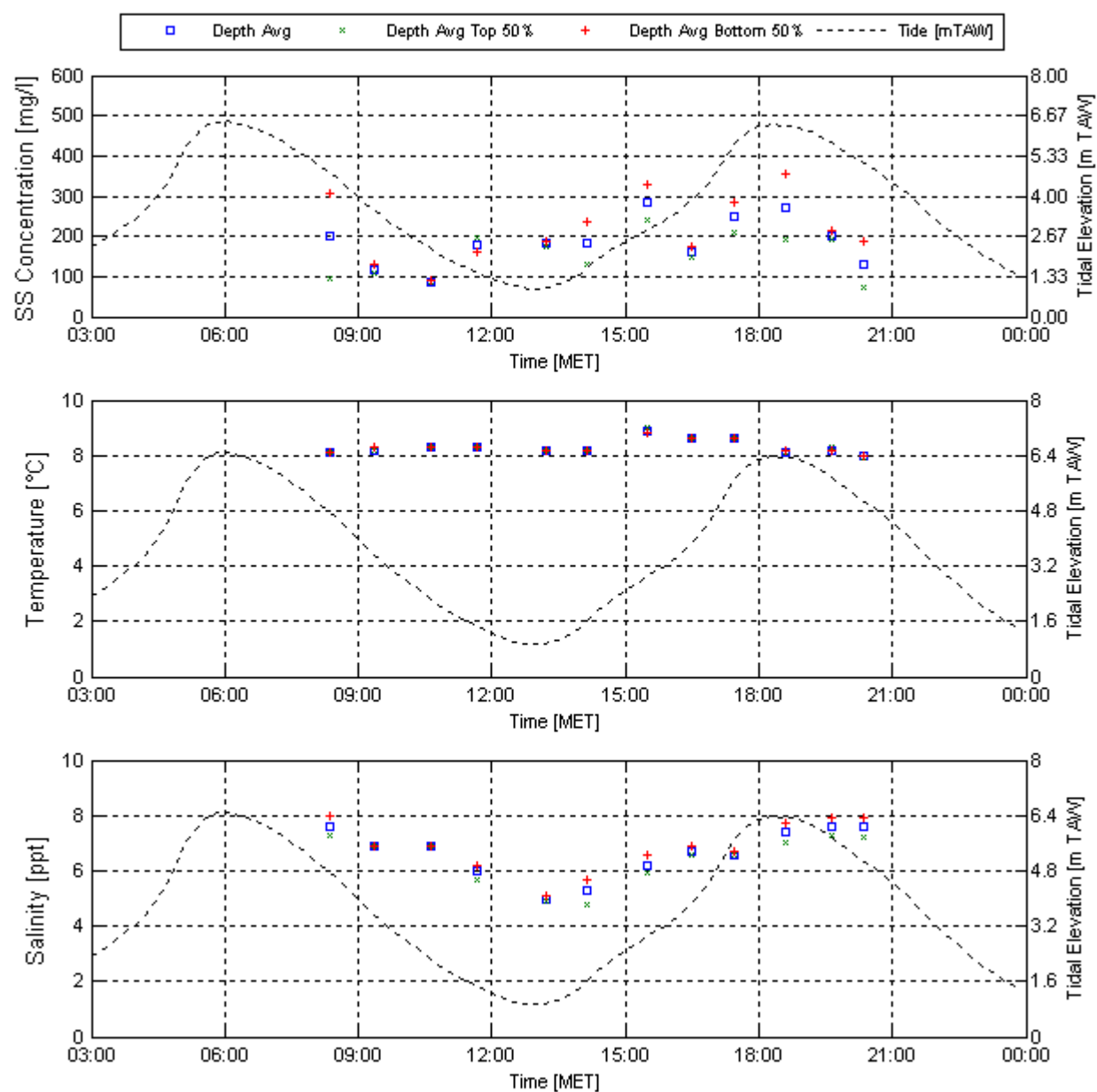
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Xd



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA

# Through tide measurements Siltprofiler 12 March 2008

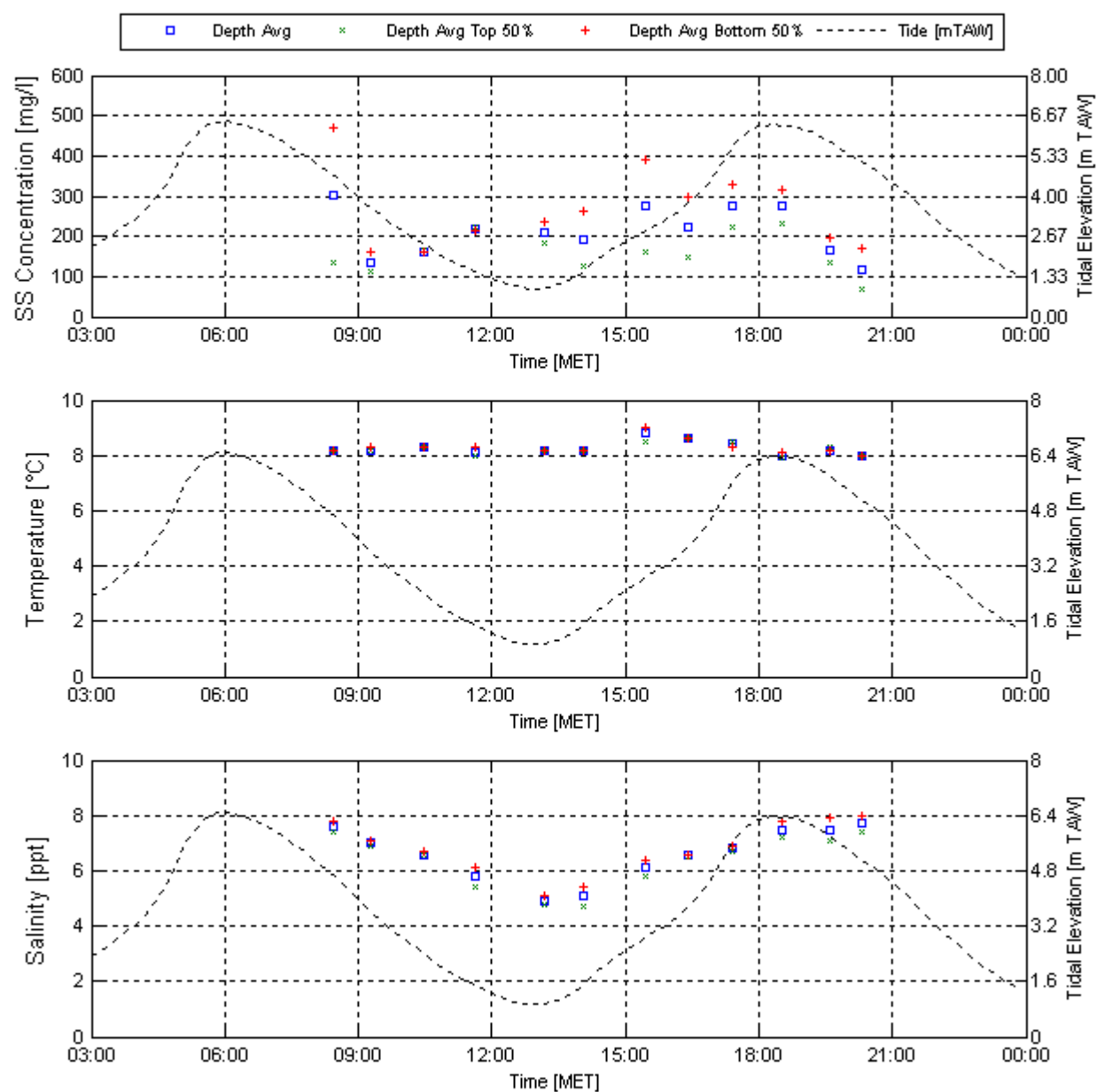
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Xe



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA



# Through tide measurements Siltprofiler 12 March 2008

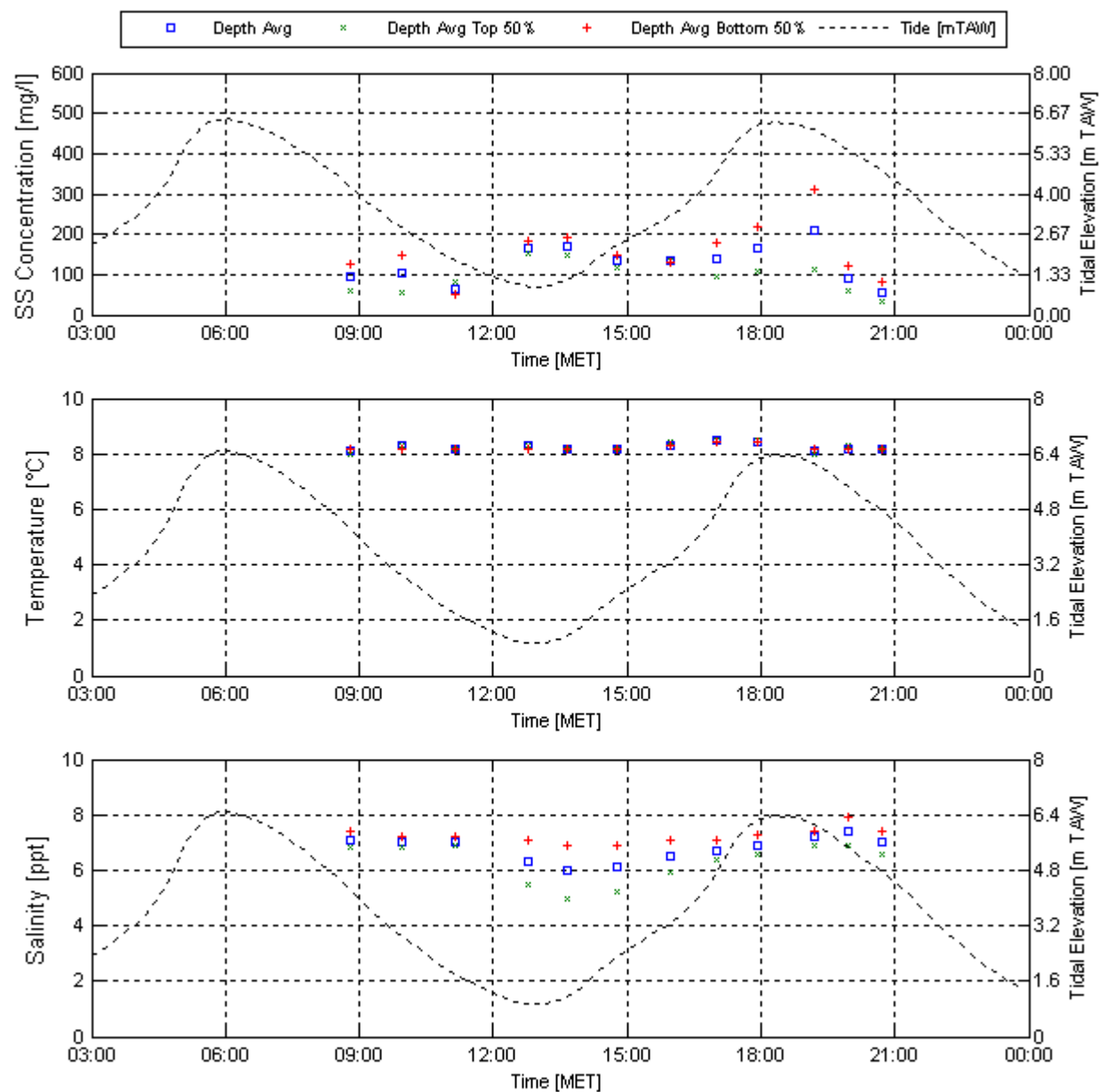
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Ya



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA

# Through tide measurements Siltprofiler 12 March 2008

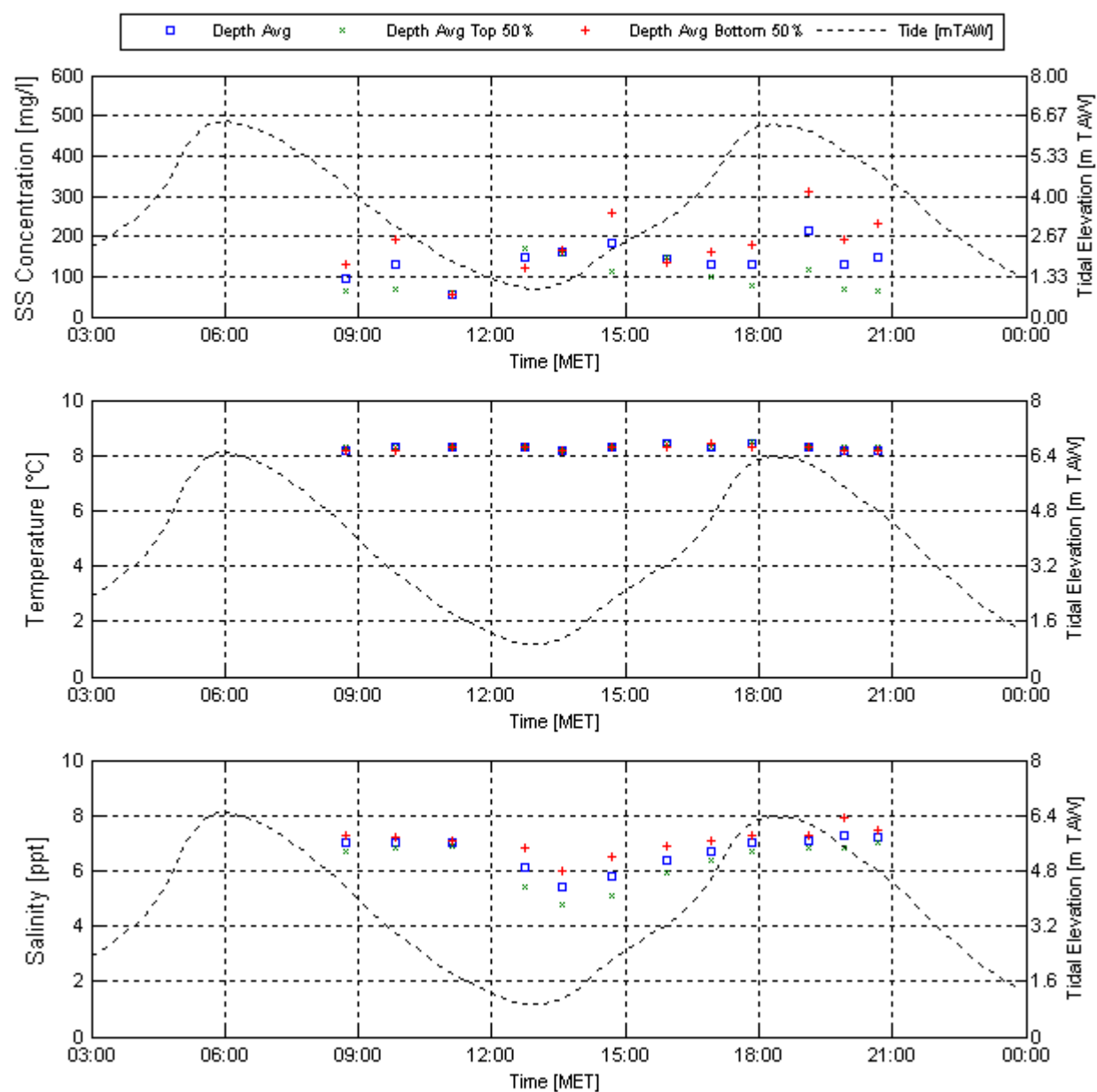
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Yb



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA

# Through tide measurements Siltprofiler 12 March 2008

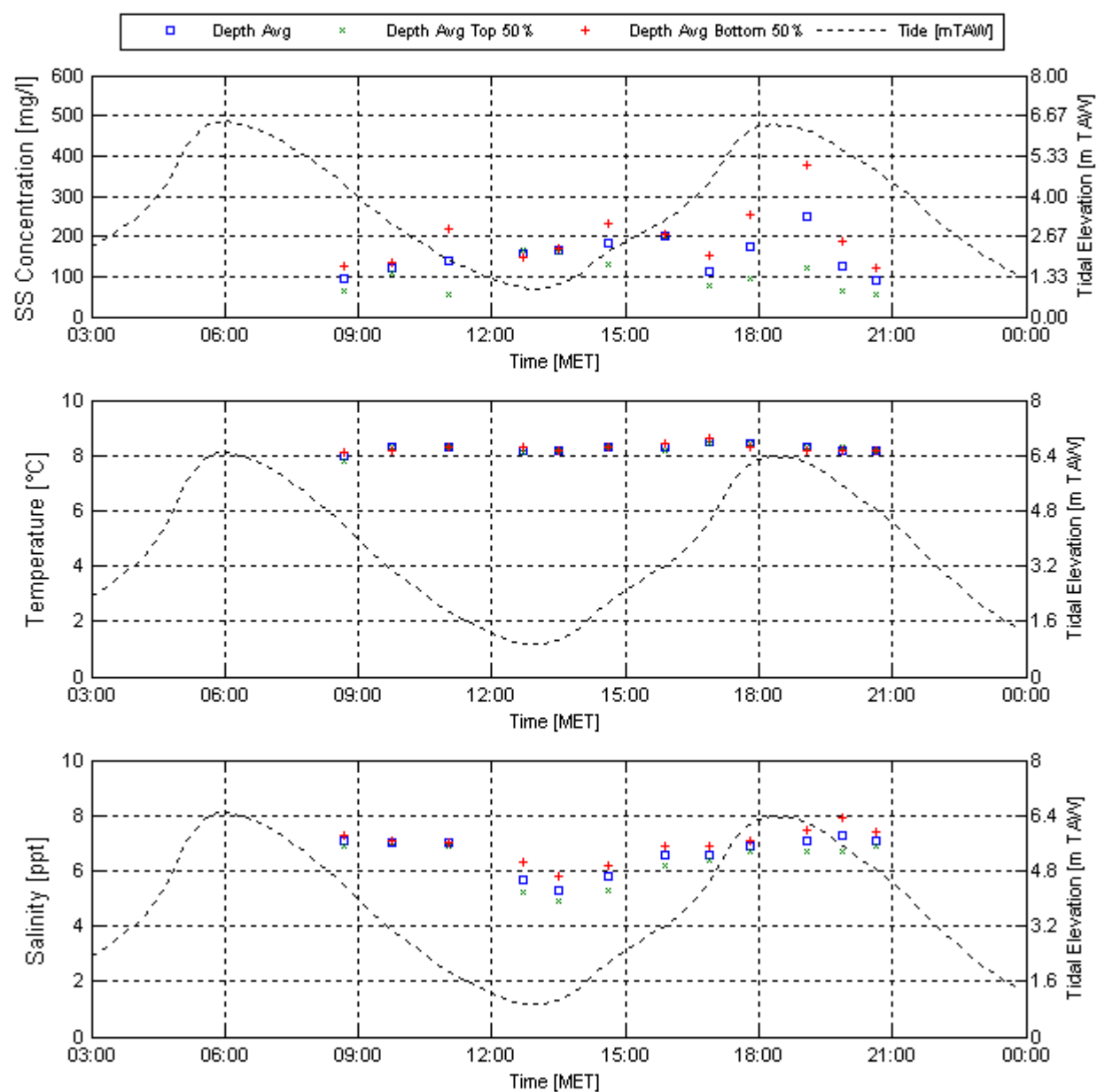
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Yc



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

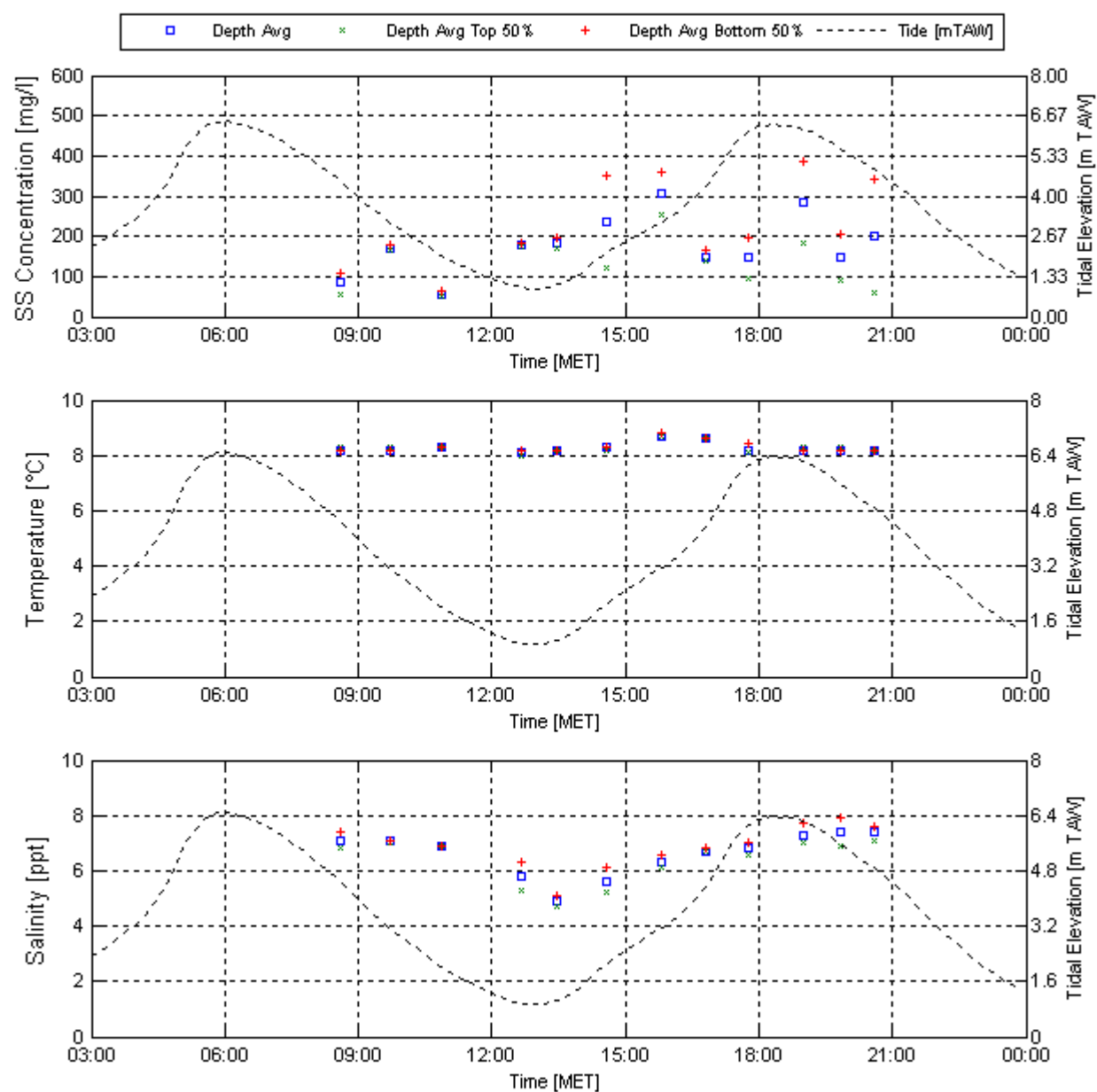
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Yd



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA

# Through tide measurements Siltprofiler 12 March 2008

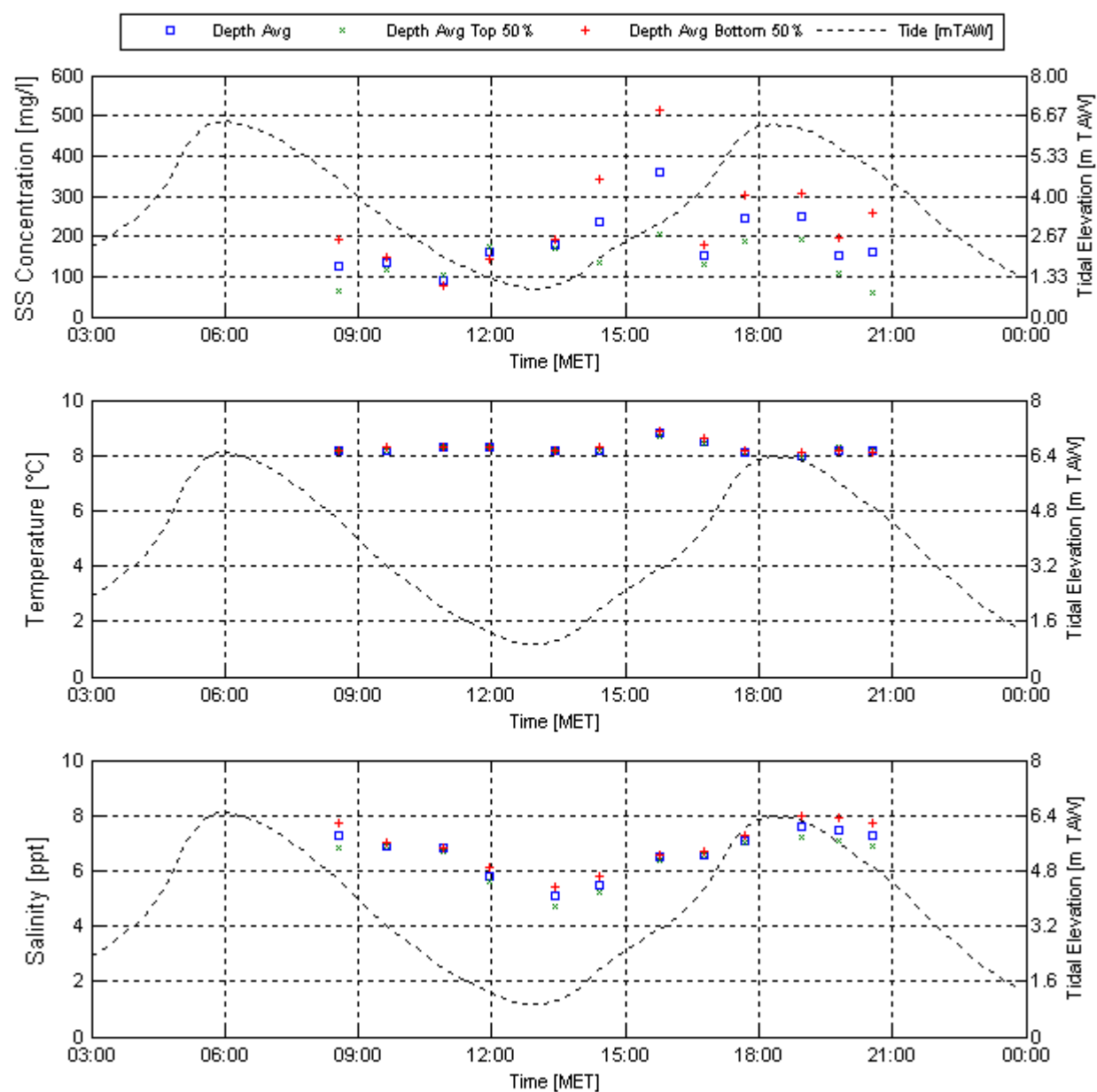
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Ye



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

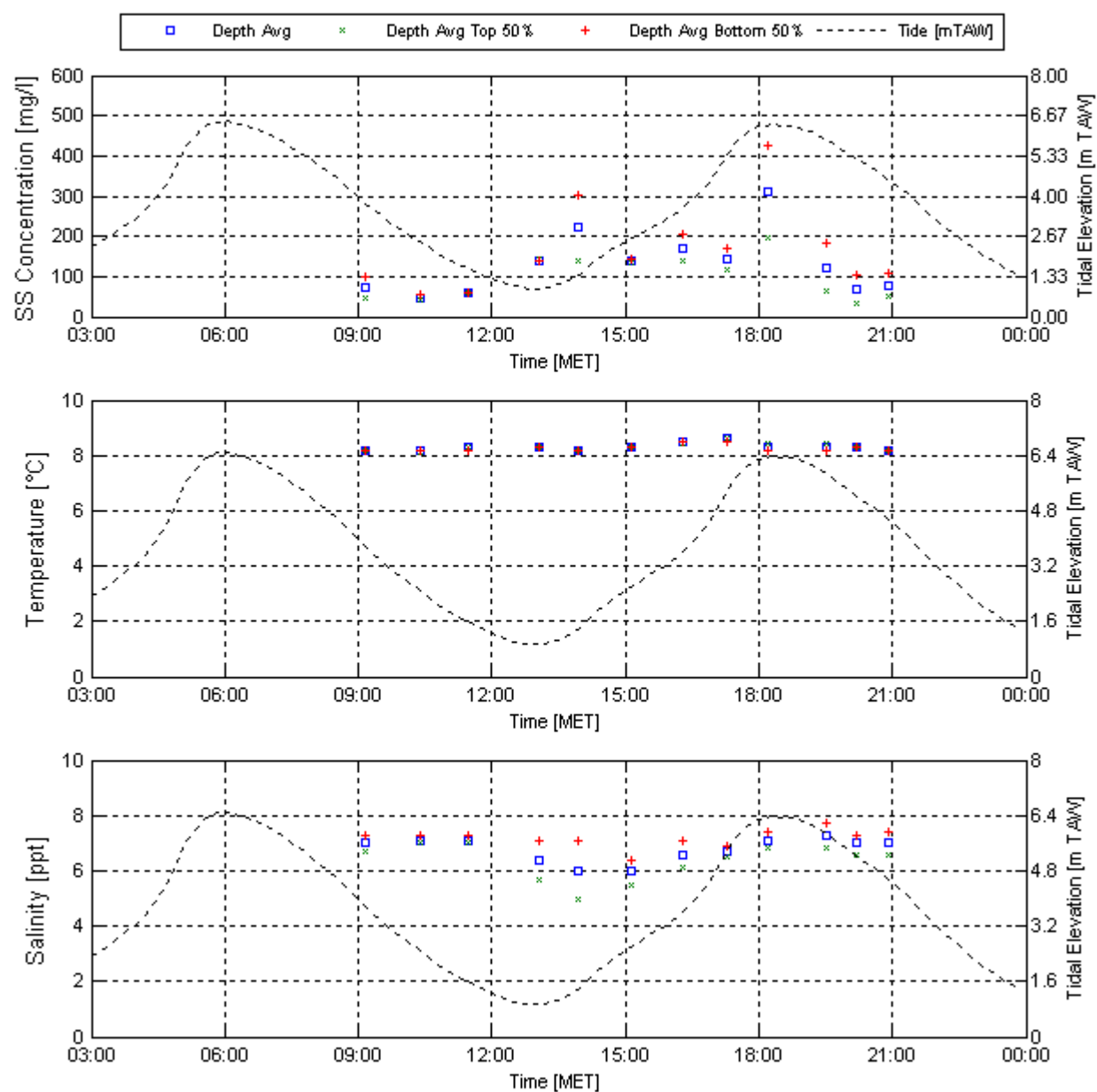
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Za



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091/MSA

# Through tide measurements Siltprofiler 12 March 2008

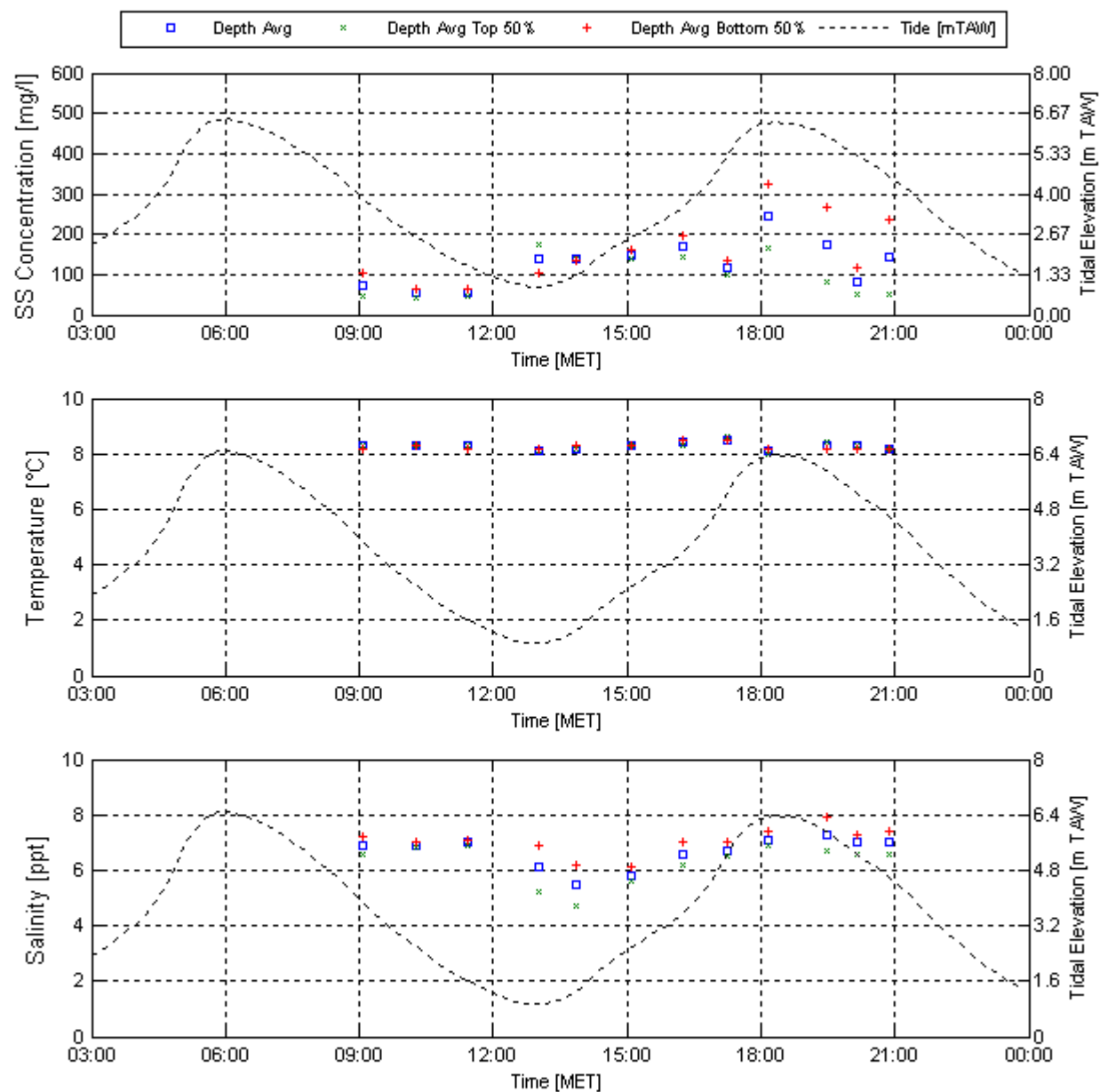
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Zb



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA

# Through tide measurements Siltprofiler 12 March 2008

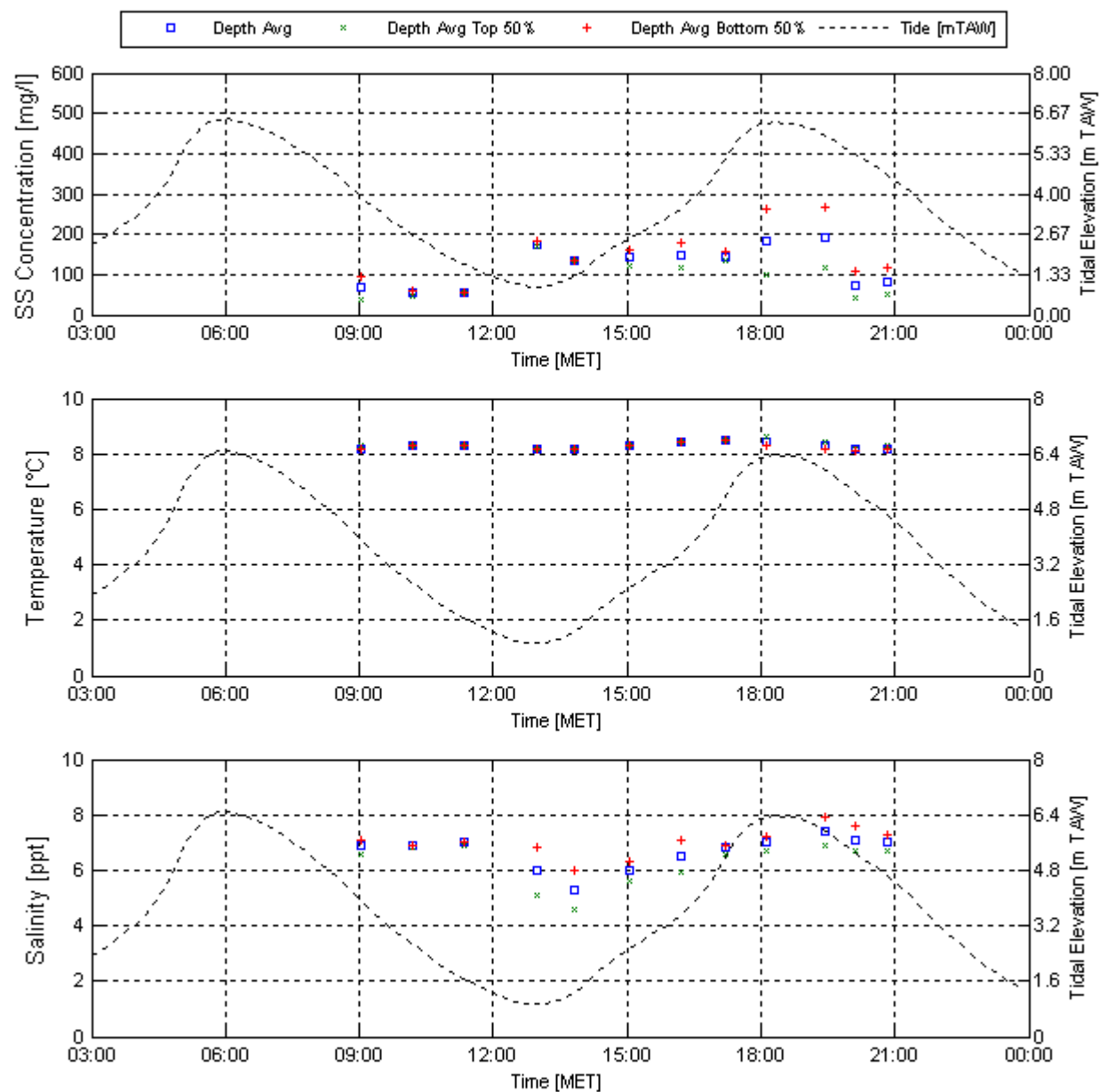
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Zc



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA



# Through tide measurements Siltprofiler 12 March 2008

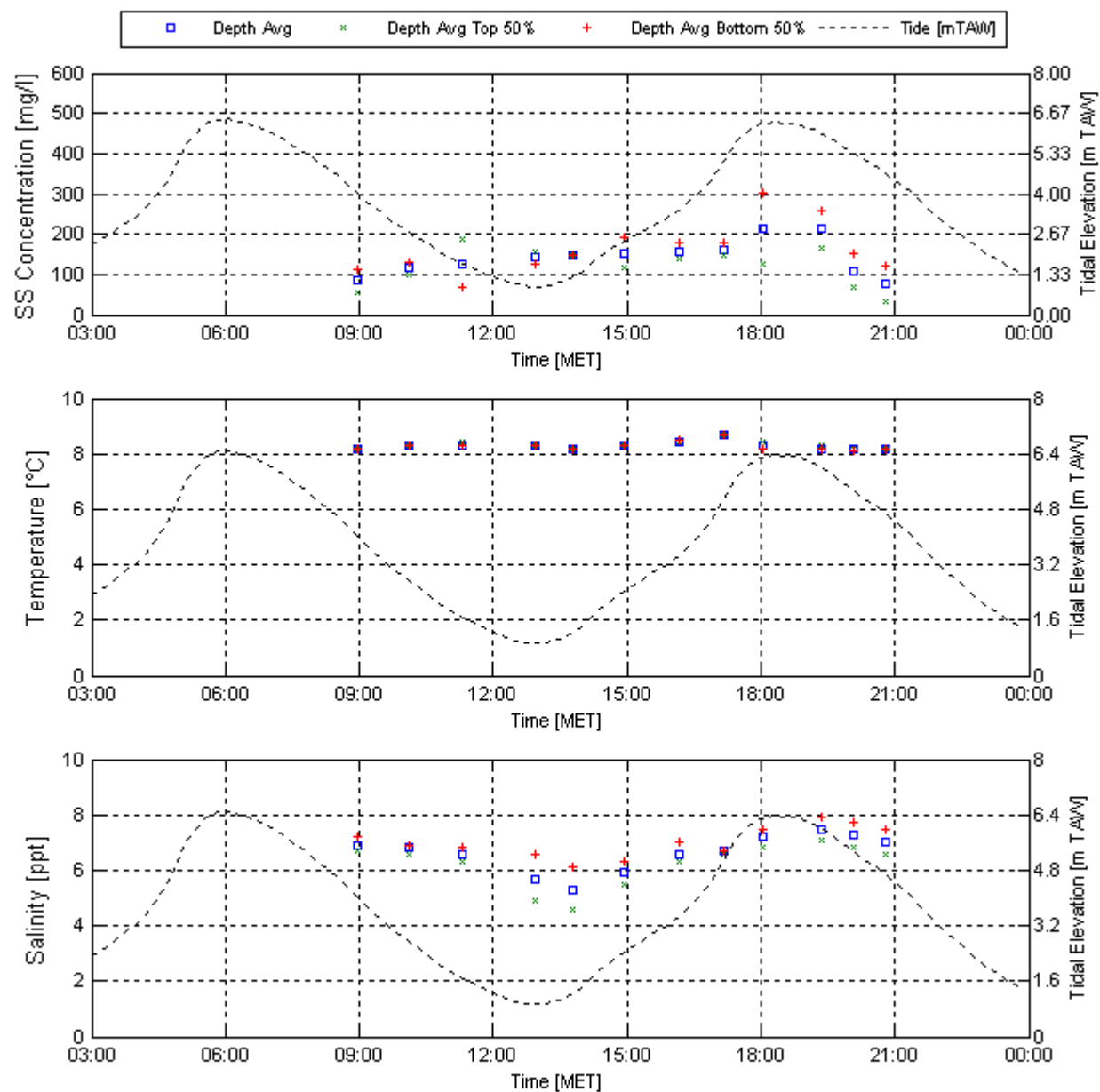
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Zd



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091.MSA

# Through tide measurements Siltprofiler 12 March 2008

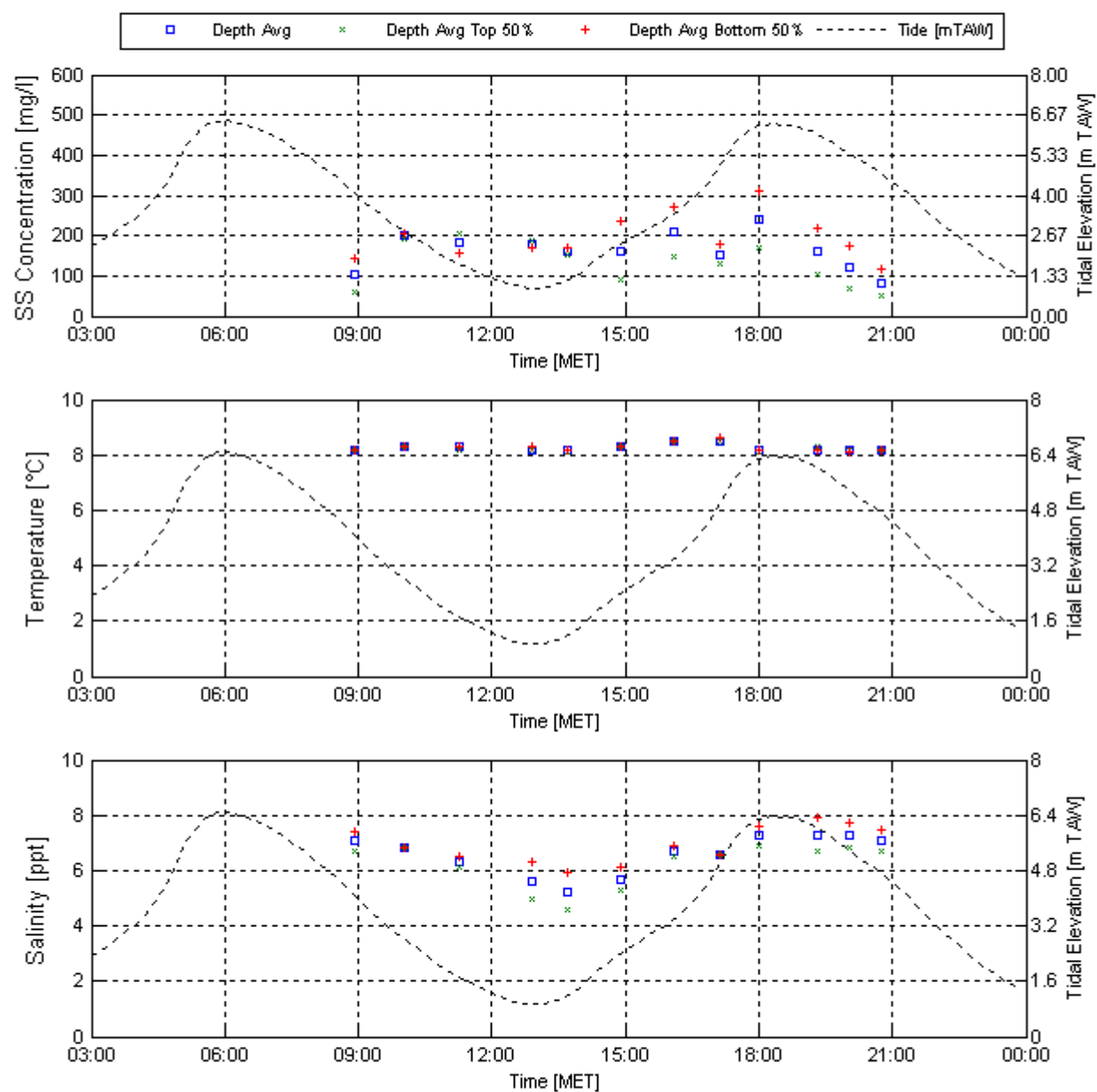
11283

Equipment(s):

Siltprofiler & CTD-Diver

Location:

Deurganckdok - Ze



Date :

12-Mar-2008

Data Processed by:

IMDC

In association with:



IRA/11283/07.091/MSA

## **APPENDIX H.   TIMESERIES**



# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

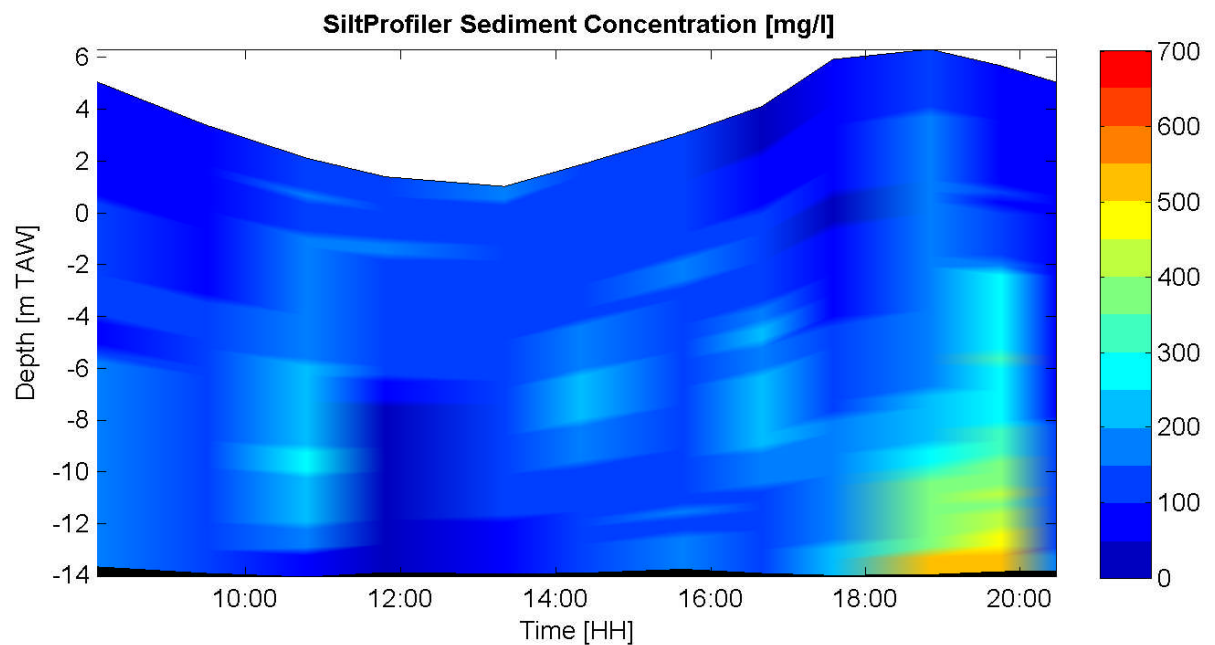
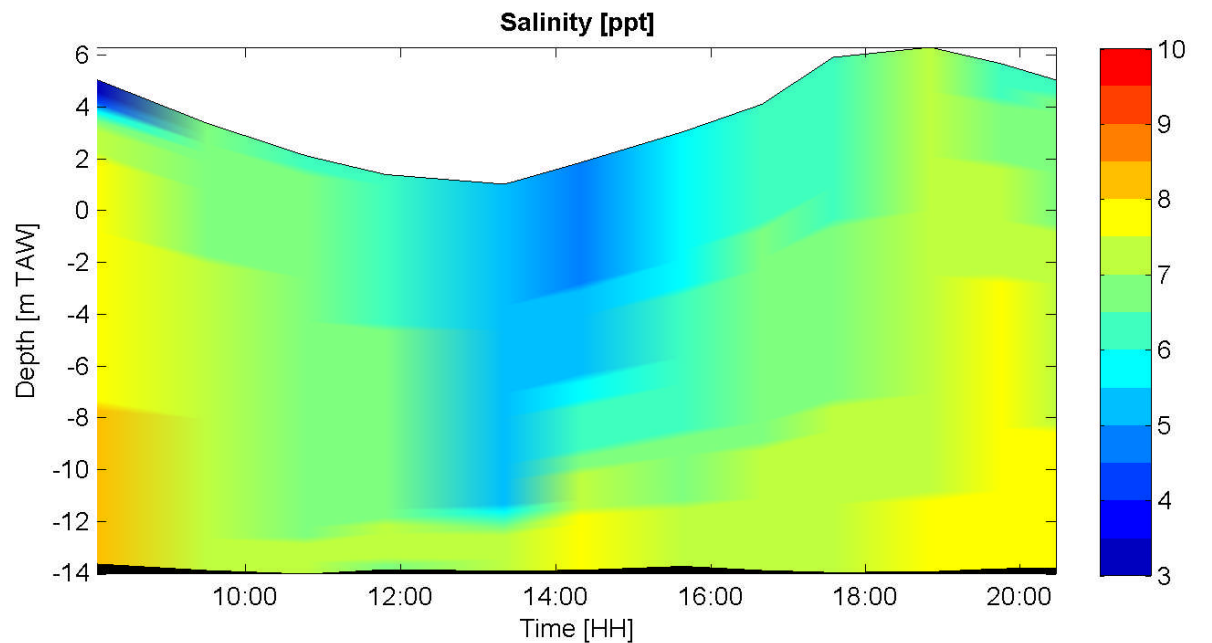
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Xa



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

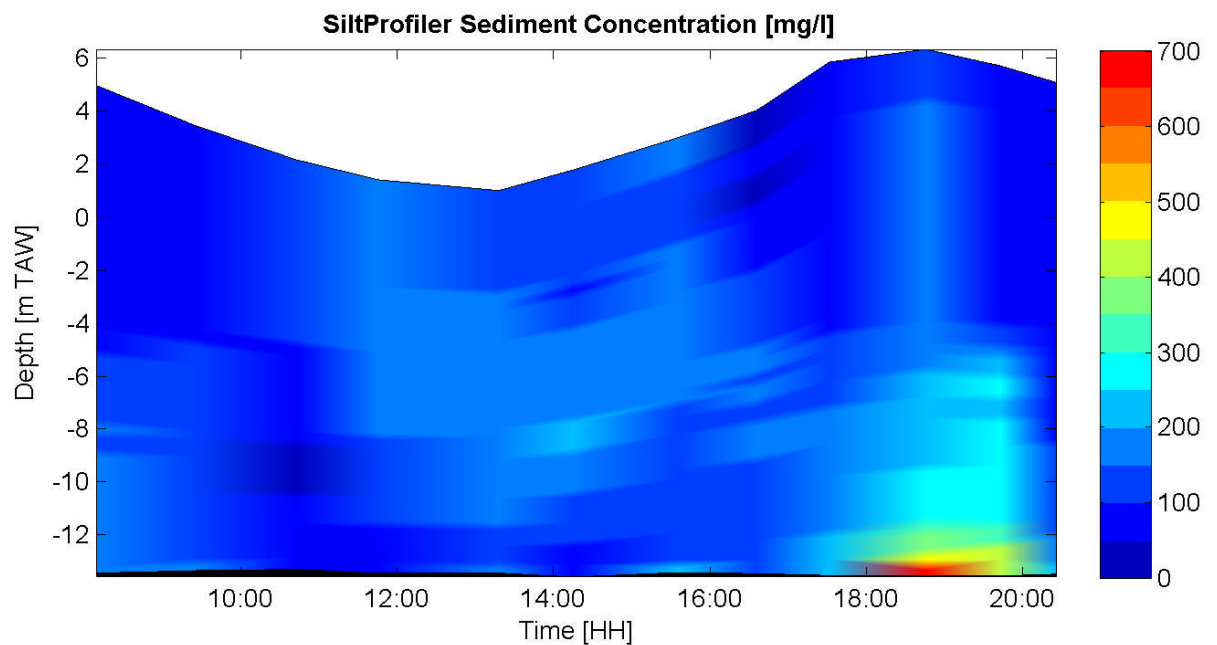
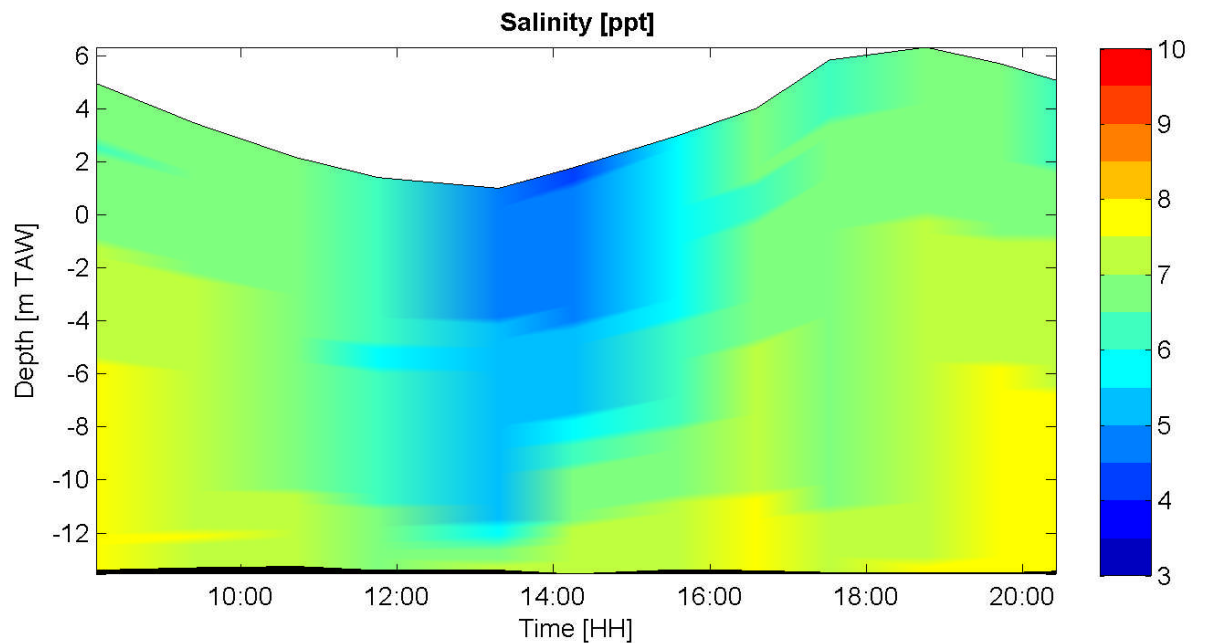
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Xb



Date :

12-Mar-2008

Data Processed by:



In association with :

I/RA/11283/07.091/MSA

## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

CTD-Diver & SiltProfiler

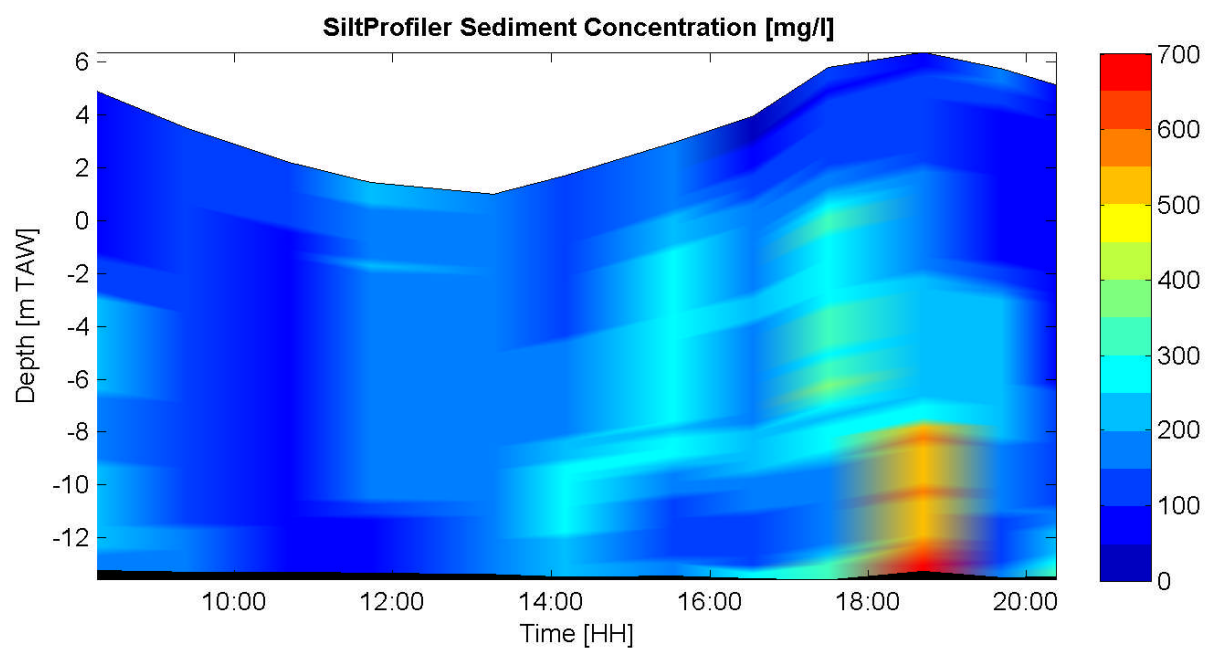
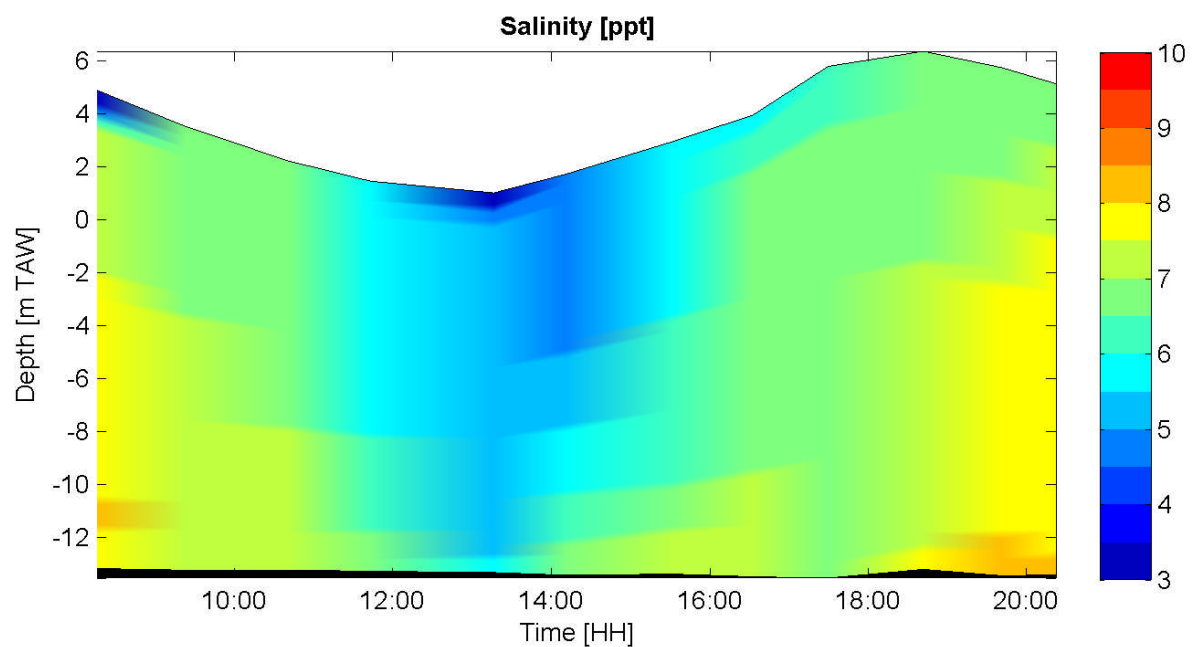
Sourcefile(s):

\*.sil

\*.sil

Location:

Deurganckdok-Xc



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

CTD-Diver & SiltProfiler

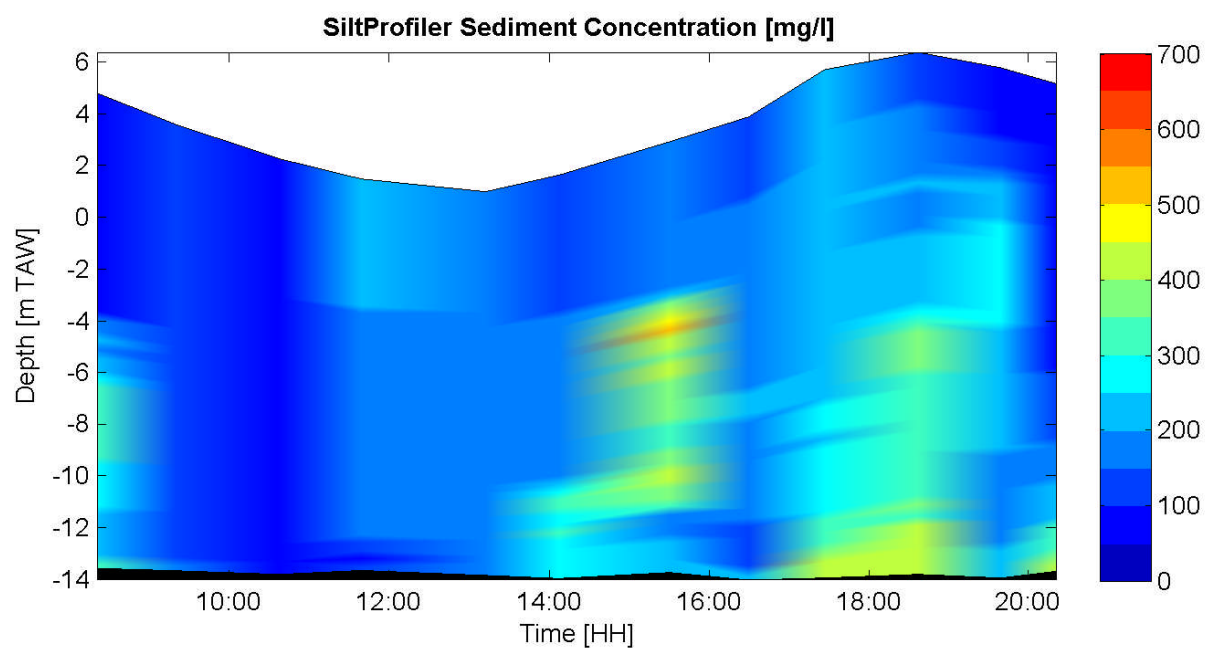
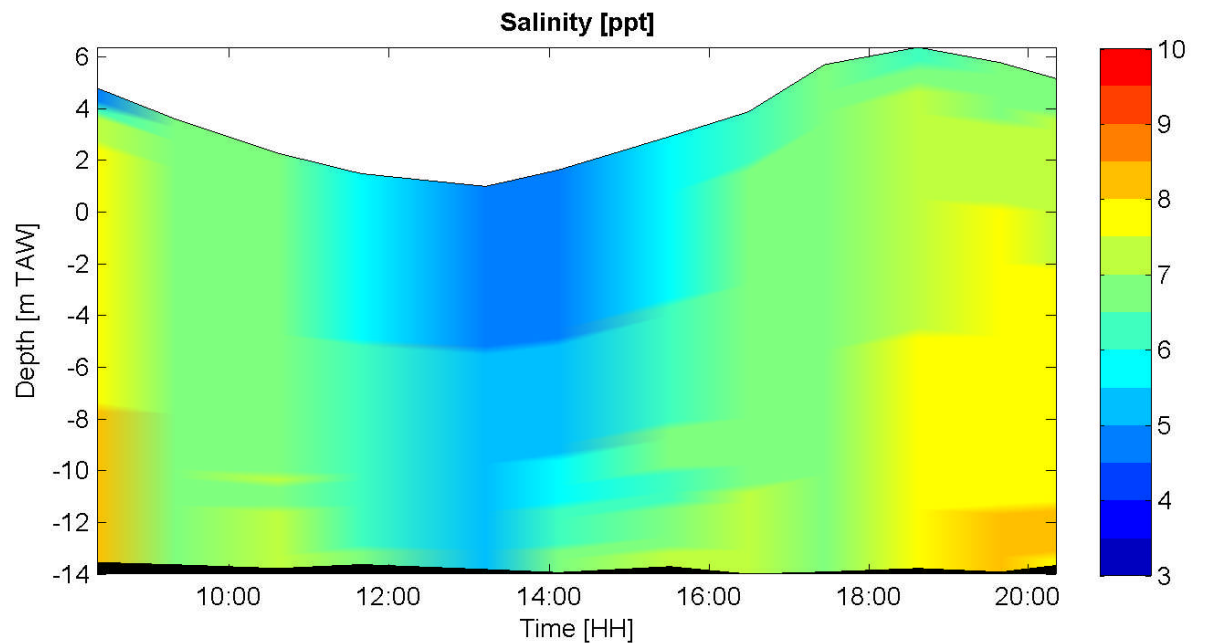
Sourcefile(s):

\*.sil

\*.sil

Location:

Deurganckdok-Xd



Date :

12-Mar-2008

Data Processed by:

In association with :



I/RA/11283/07.091/MSA



## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

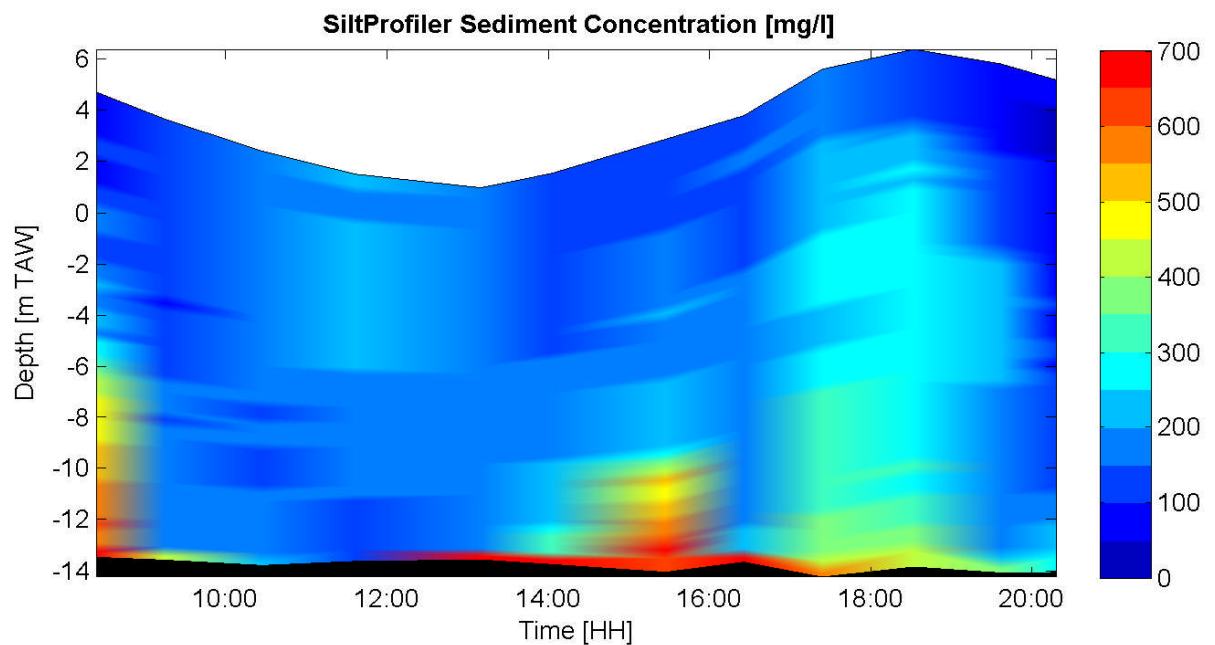
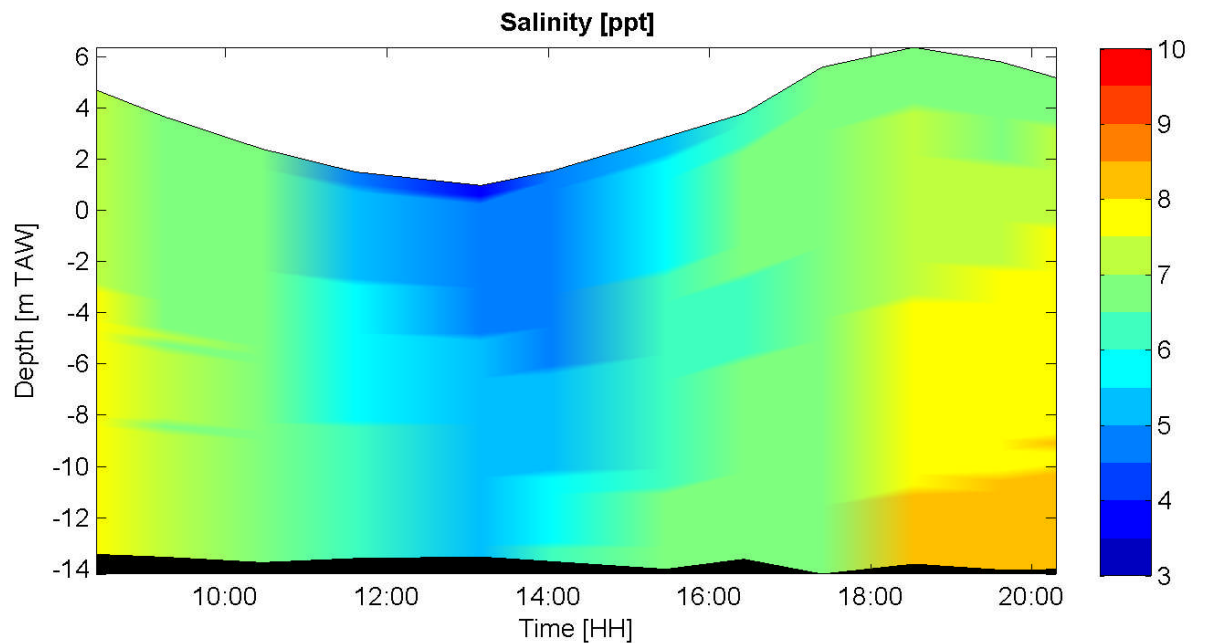
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Xe



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

CTD-Diver & SiltProfiler

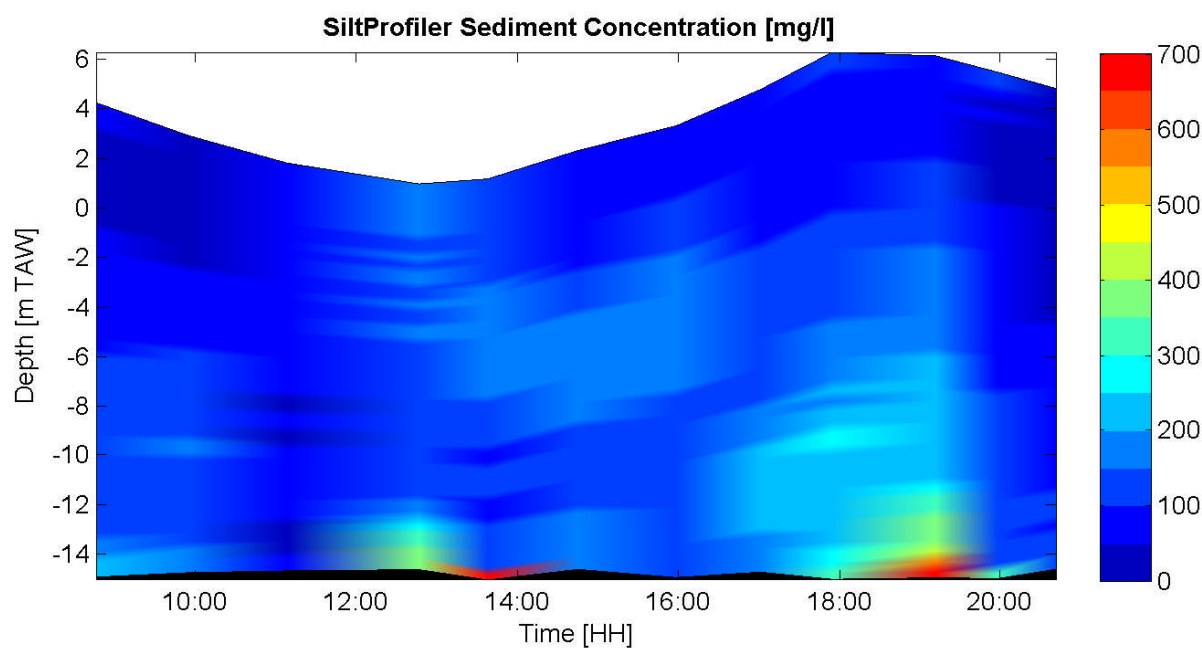
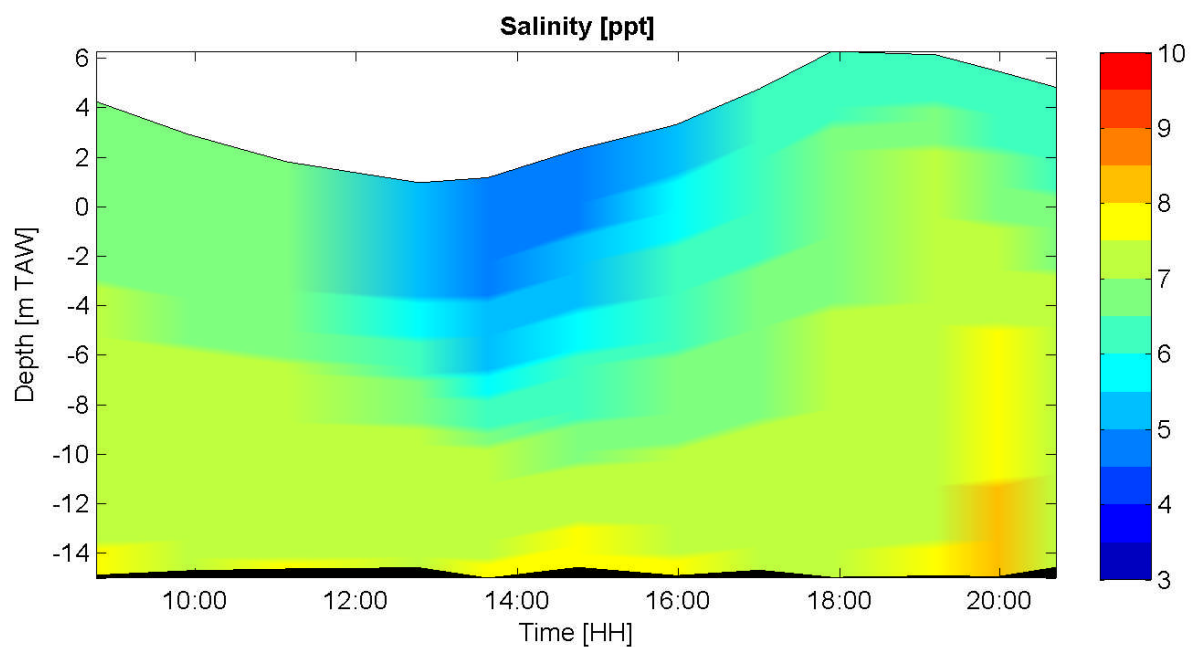
Sourcefile(s):

\*.sil

\*.sil

Location:

Deurganckdok-Ya



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

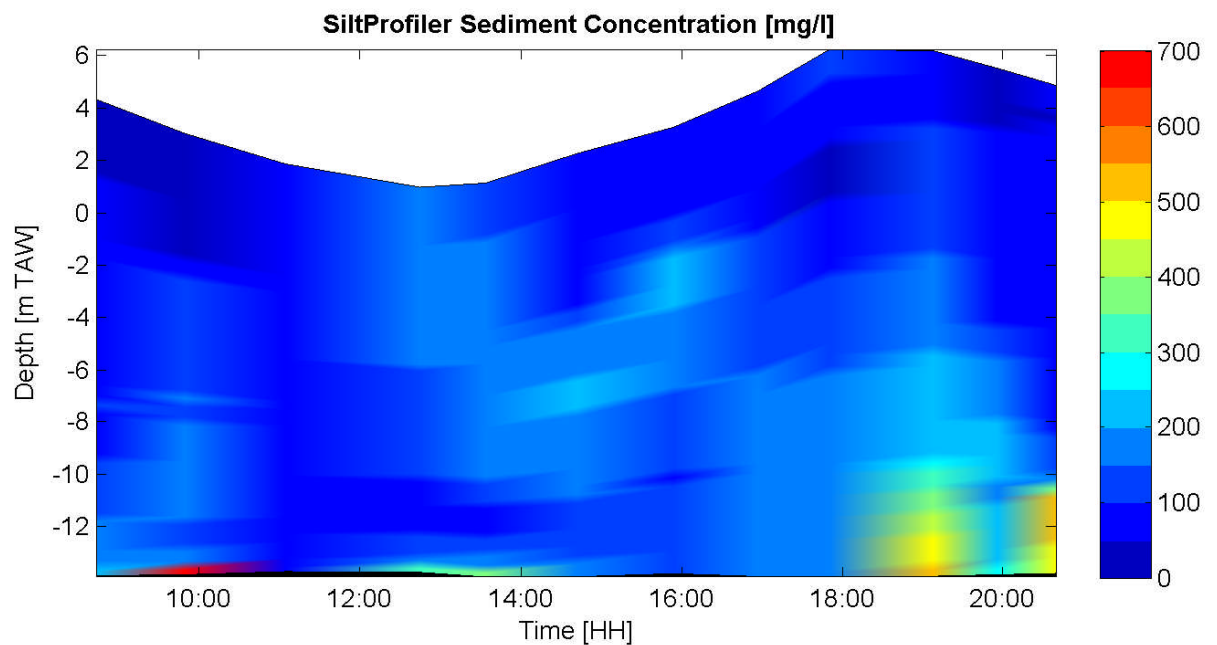
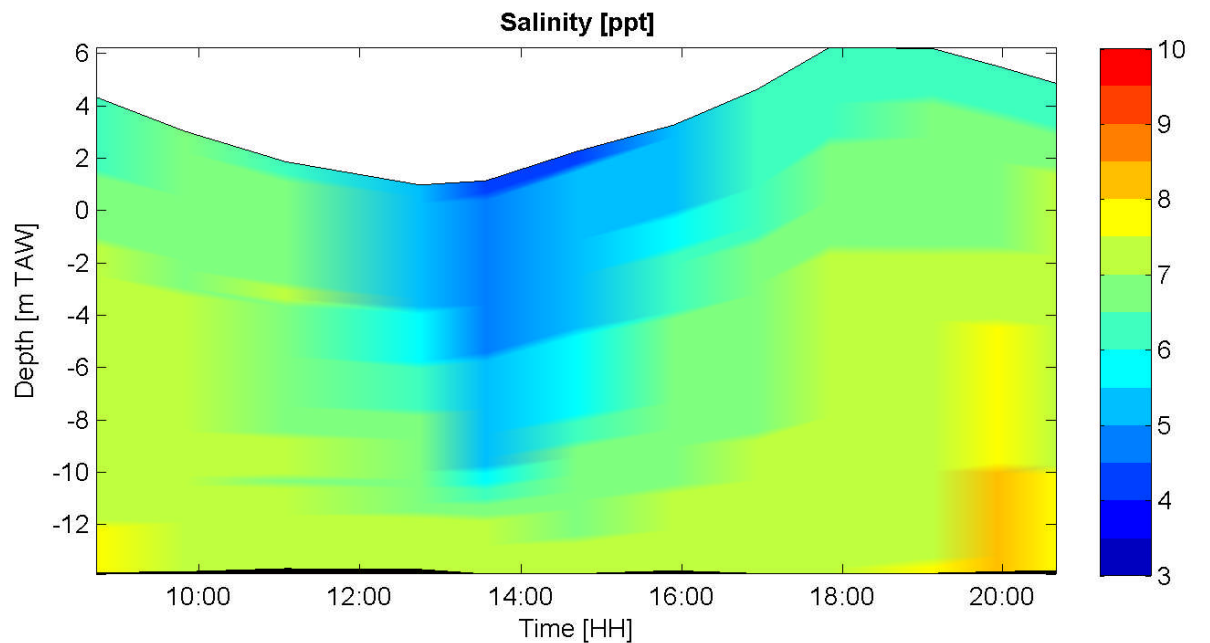
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Yb



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

CTD-Diver & SiltProfiler

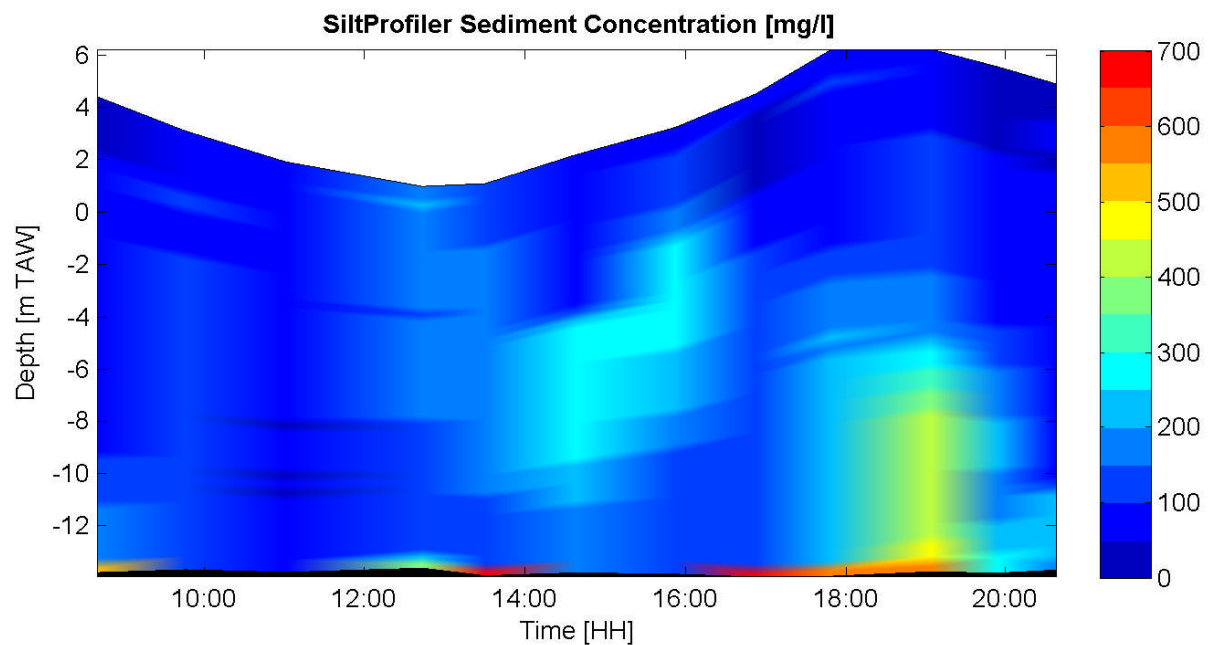
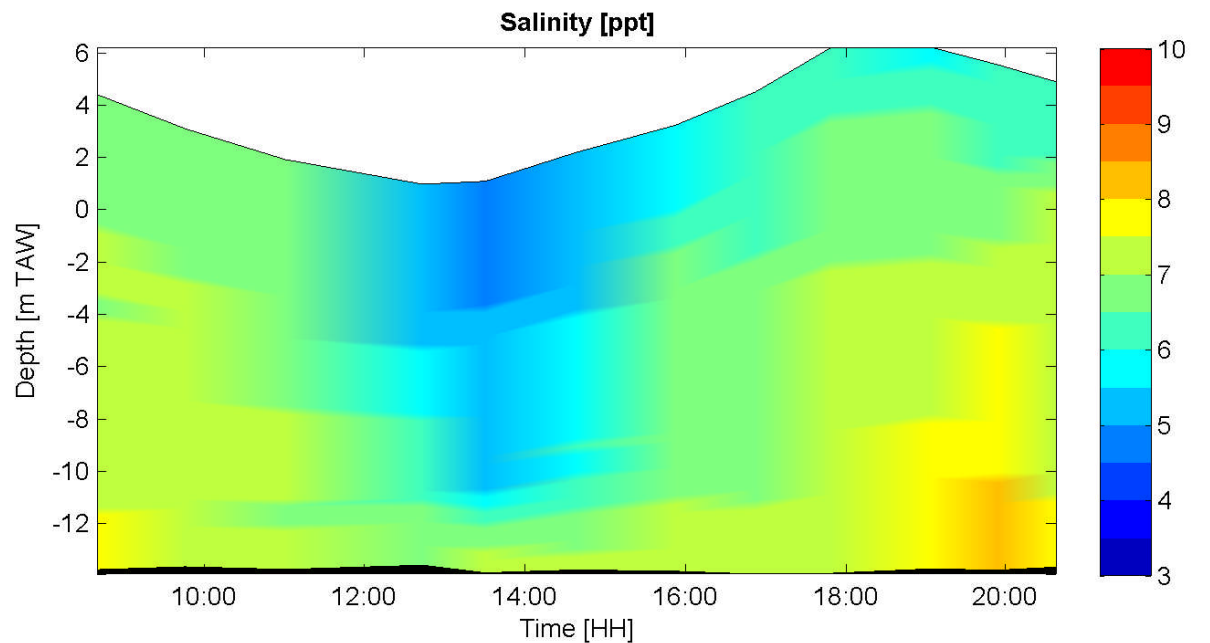
Sourcefile(s):

\*.sil

\*.sil

Location:

Deurganckdok-Yc



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

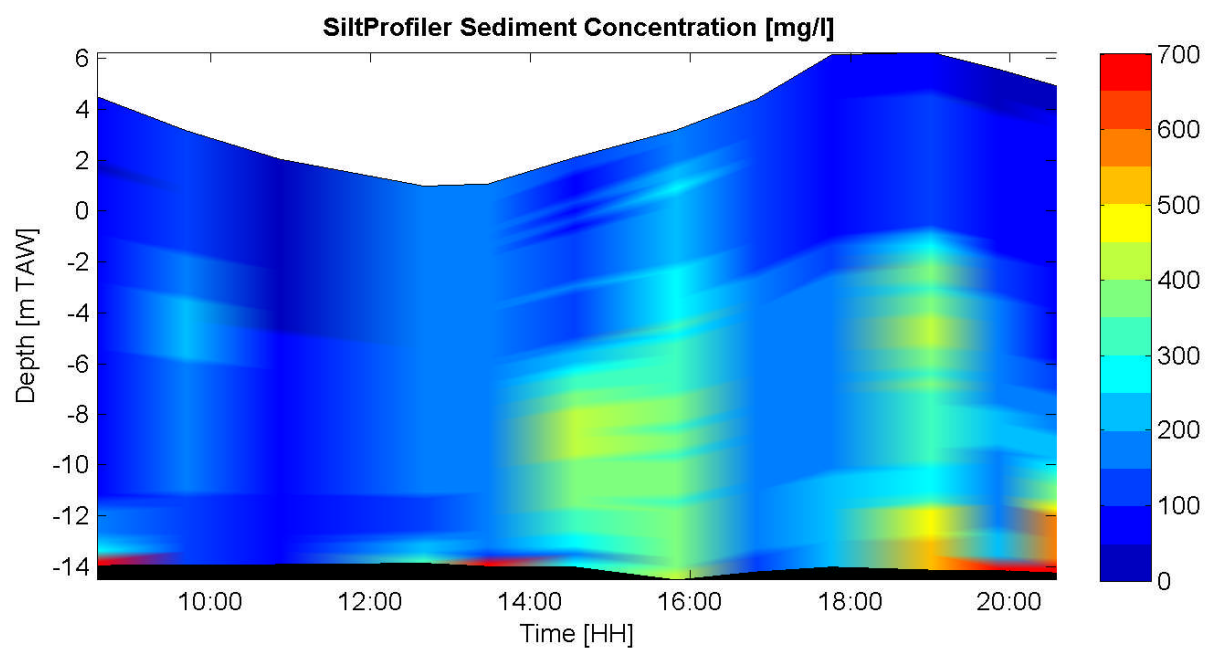
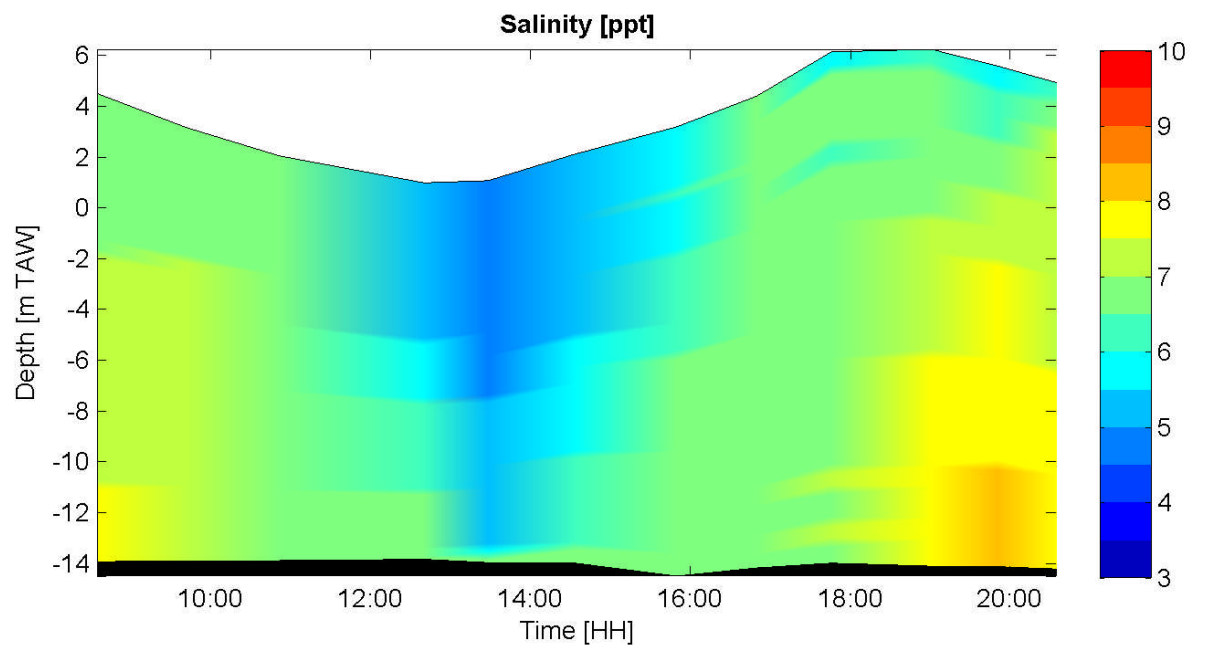
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Yd



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

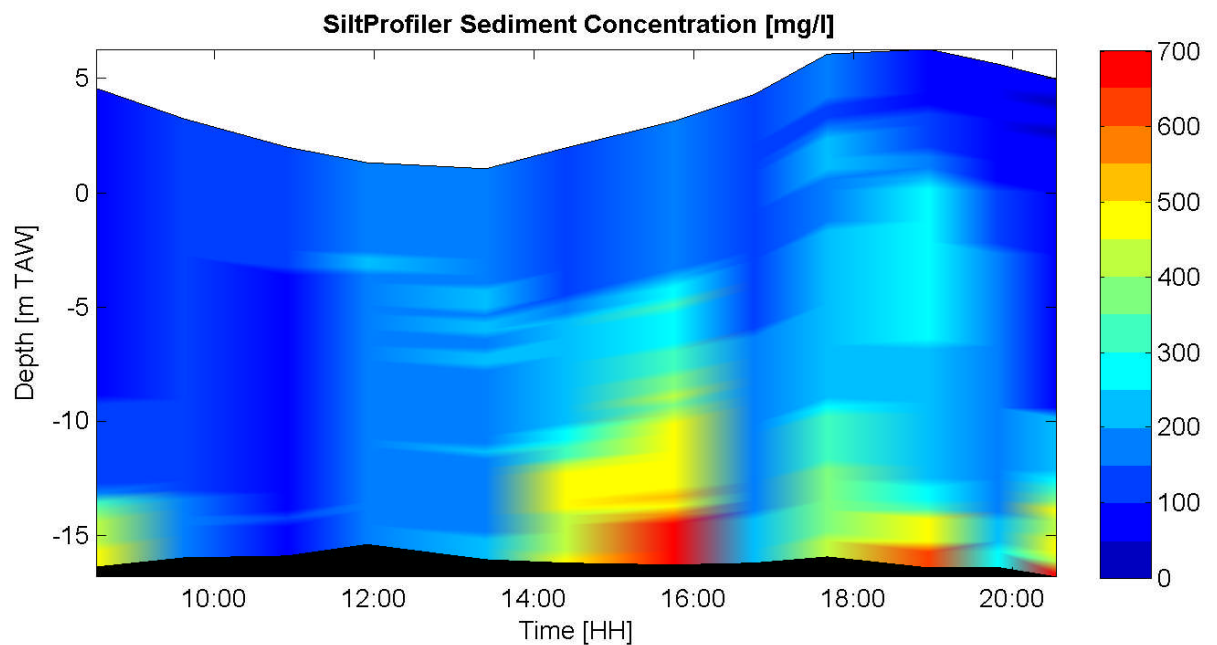
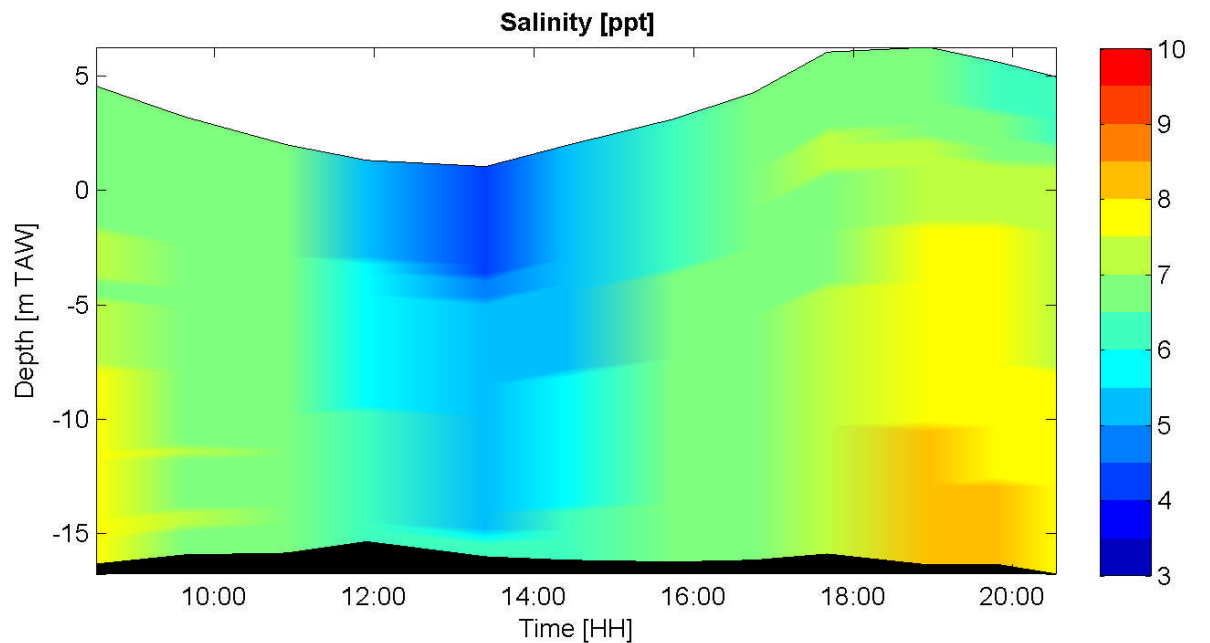
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Ye



Date :

12-Mar-2008

Data Processed by:



In association with :

I/RA/11283/07.091/MSA

## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

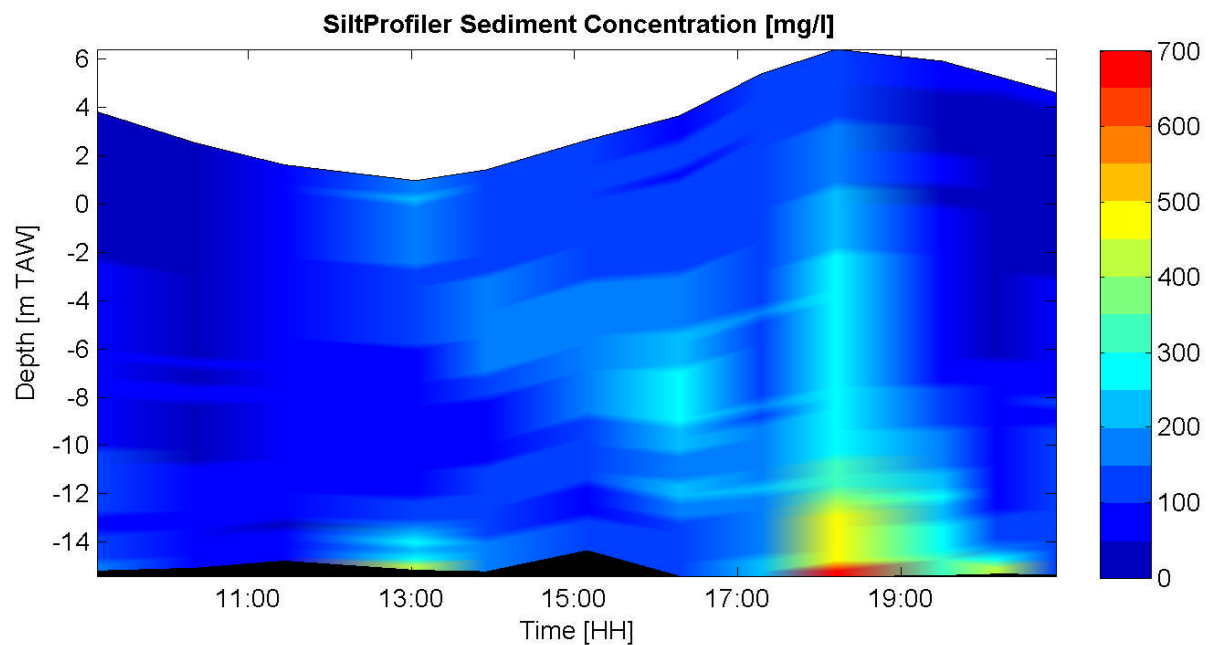
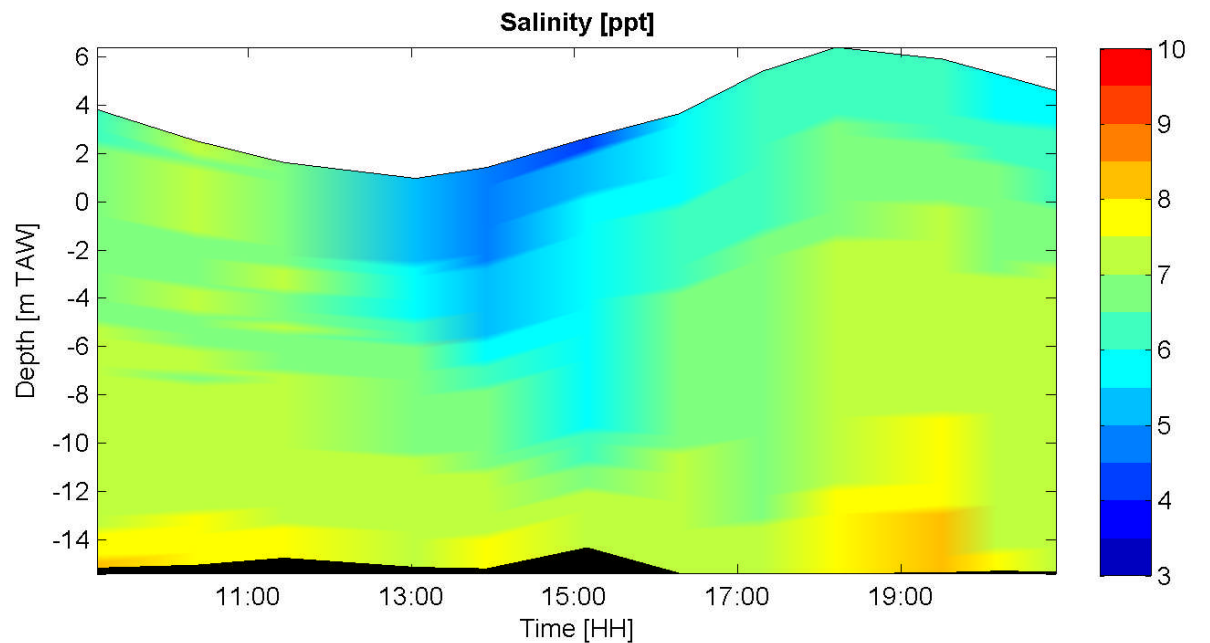
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Za



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA



## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

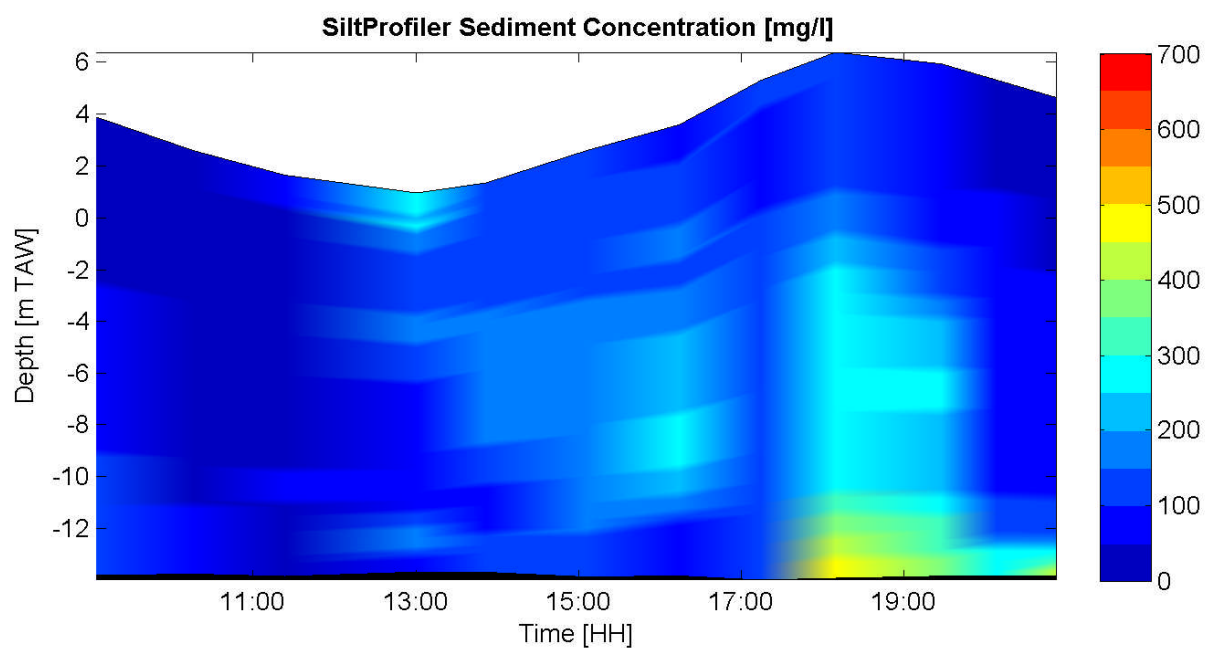
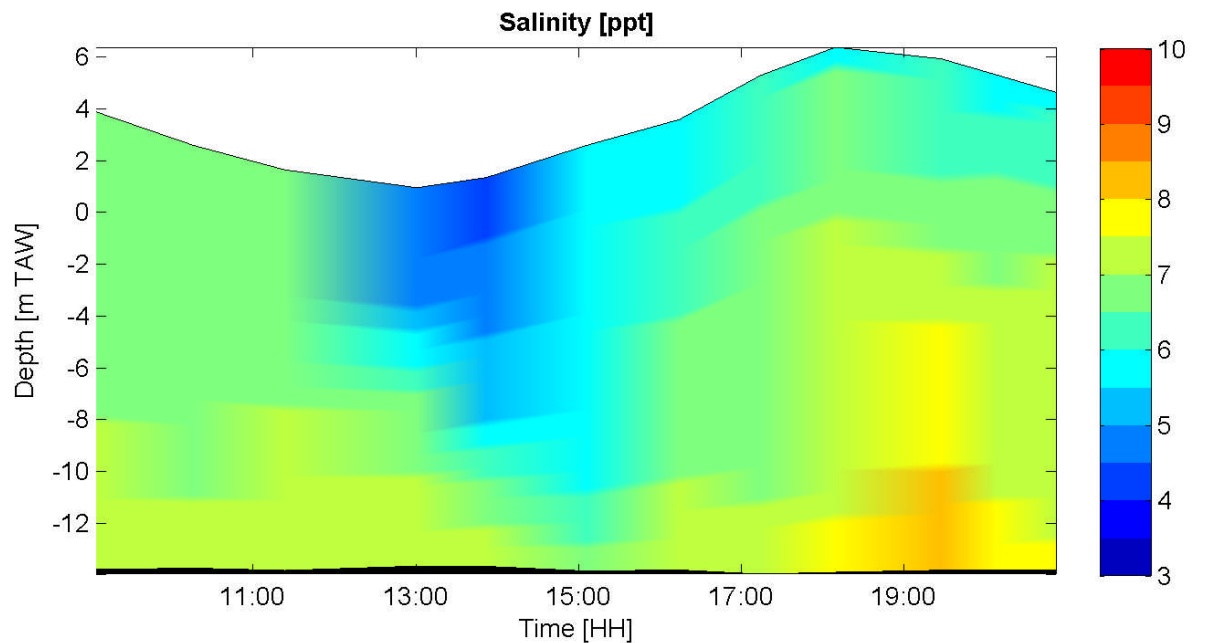
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Zb



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA



## Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

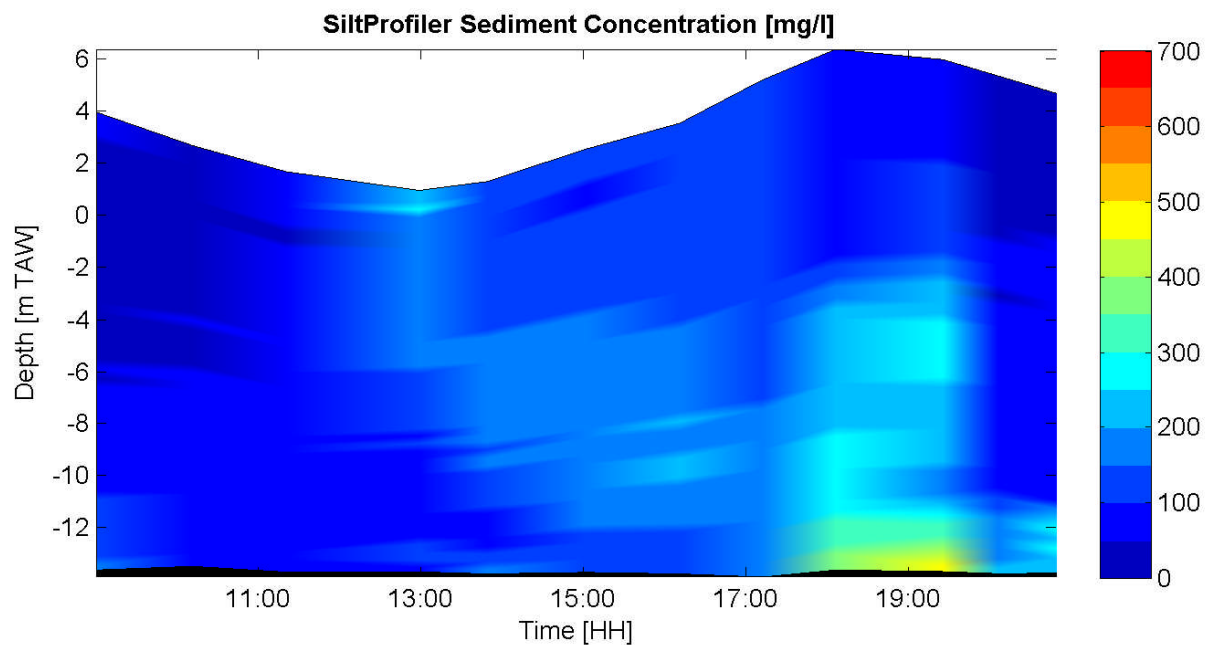
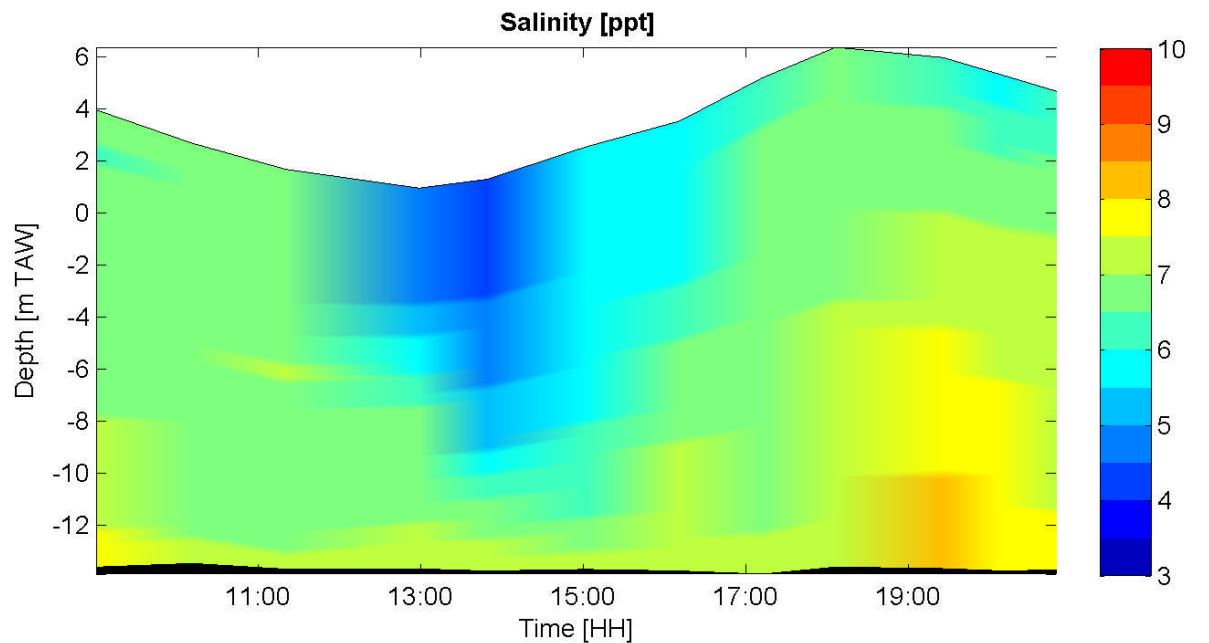
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Zc



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

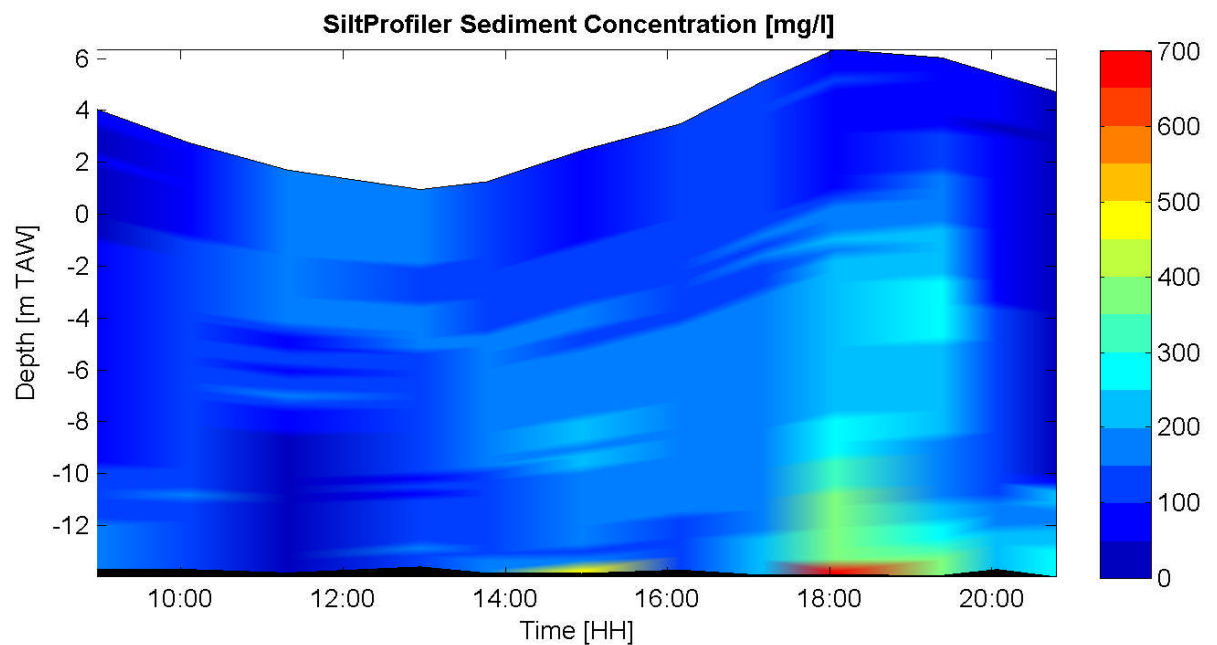
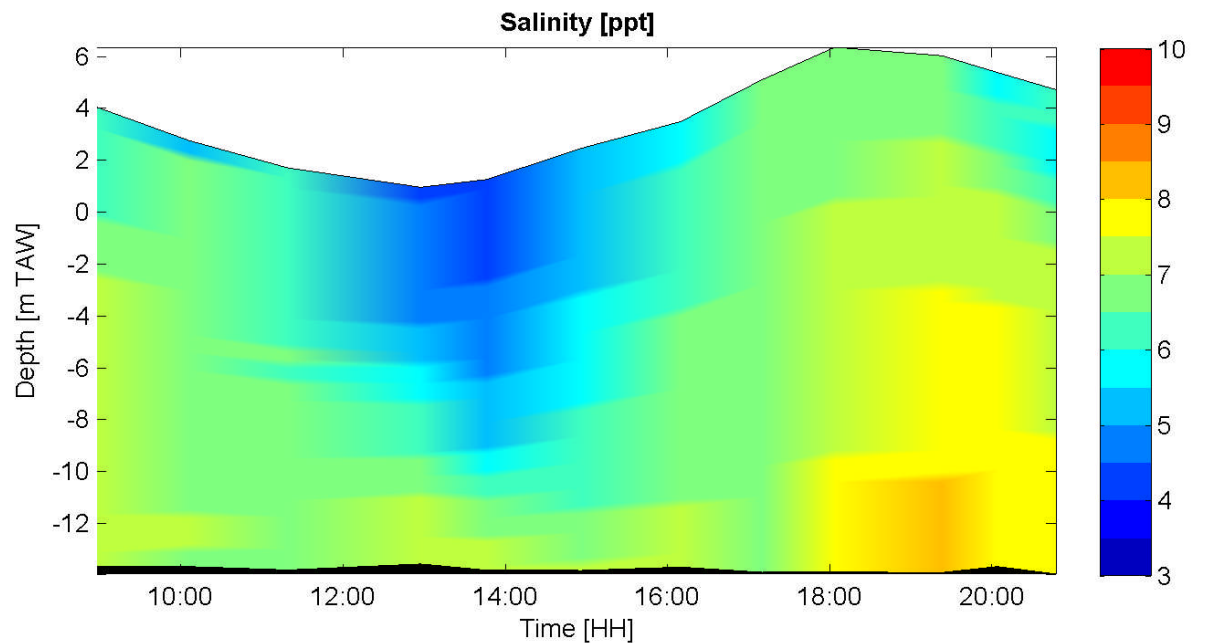
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Zd



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

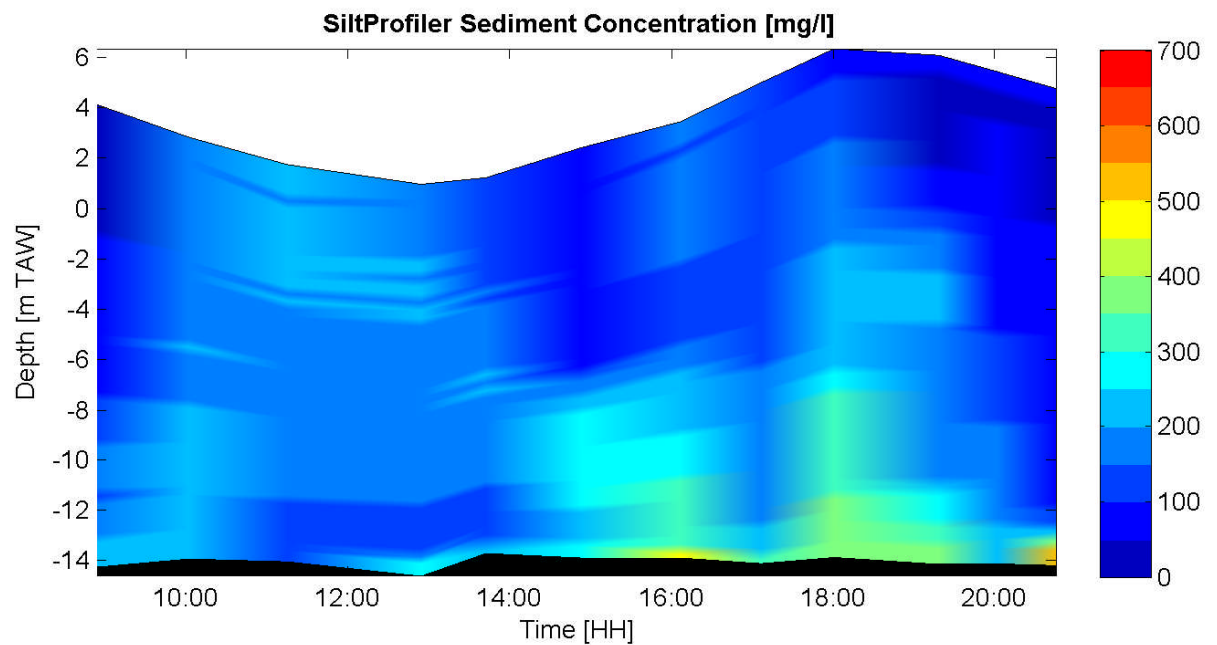
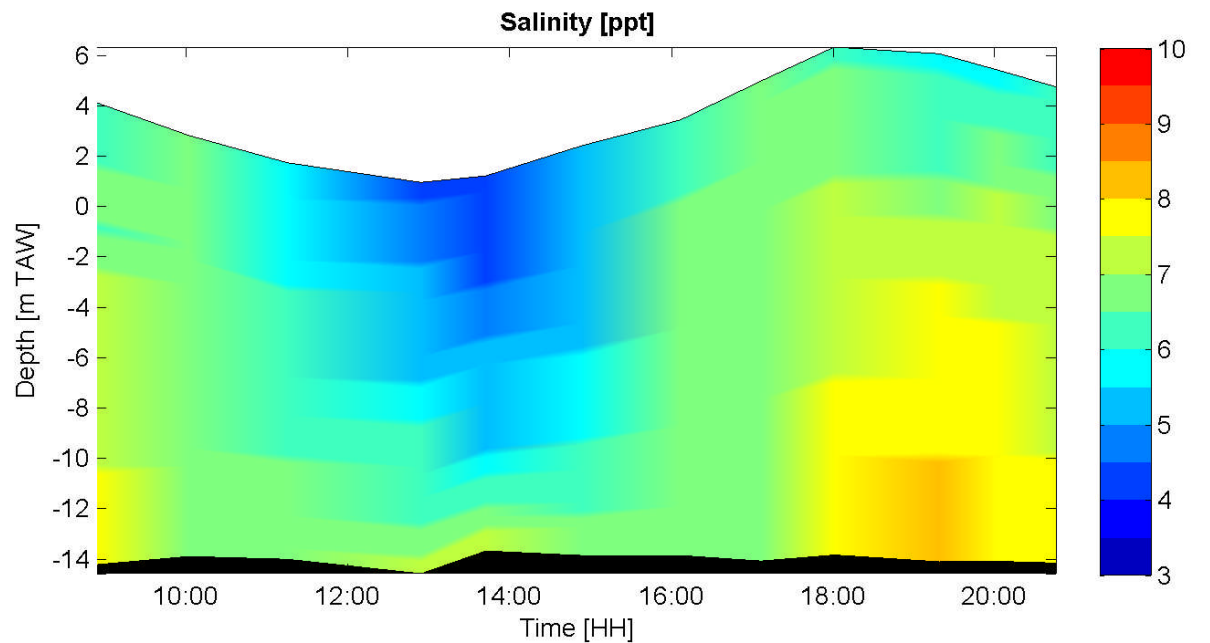
CTD-Diver & SiltProfiler

Sourcefile(s):

\*.sil  
\*.sil

Location:

Deurganckdok-Ze



Date :

12-Mar-2008

Data Processed by:



In association with :



I/RA/11283/07.091/MSA



## **APPENDIX I. TRANSECT SUSPENDED SEDIMENT CONCENTRATION DISTRIBUTION**



# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

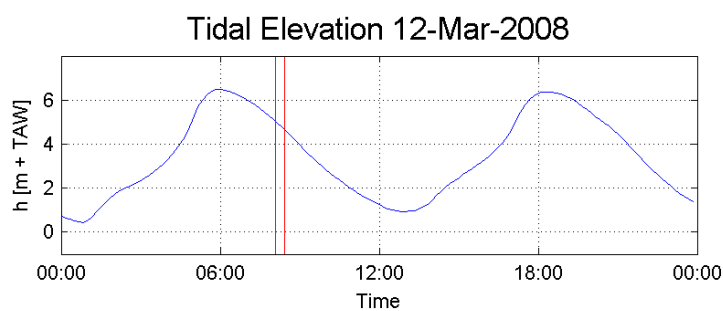
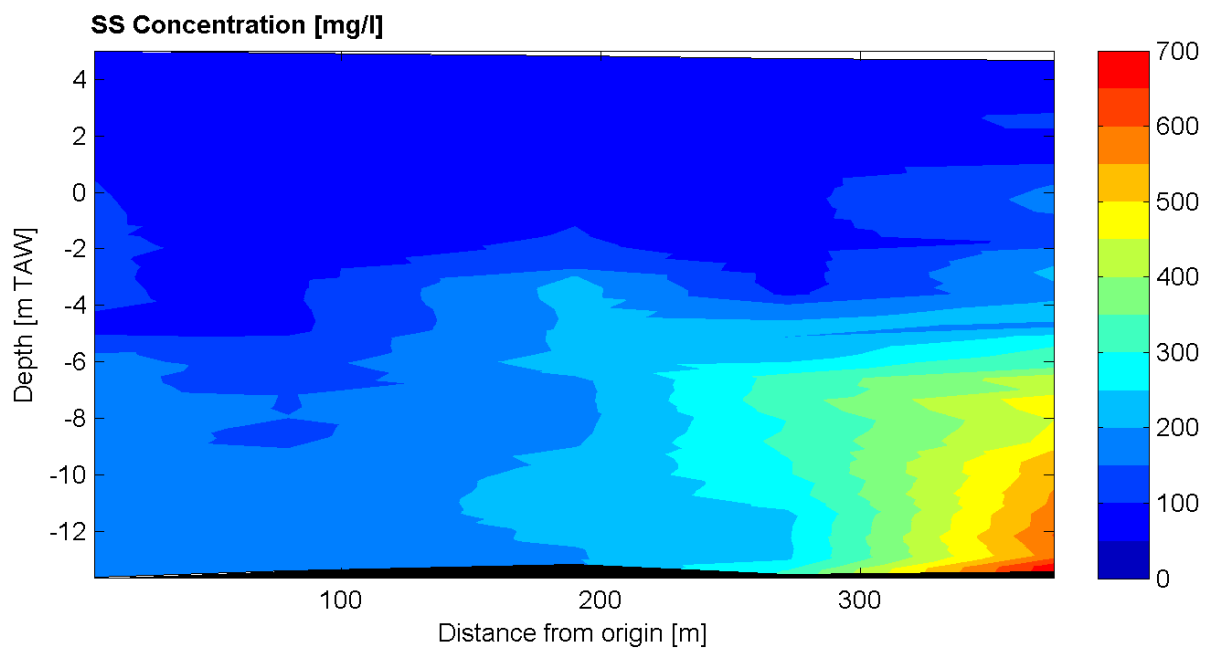
SiltProfiler

Sourcefile:

4001Xa.sil - 4005Xe.sil

Location:

Deurganckdok



Slack water:

06:00:	h = 6.49 m+TAW
18:20:	h = 6.36 m+TAW
13:00:	h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

08:05 - 08:25

Time after HW [HH:MM]

2:15

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

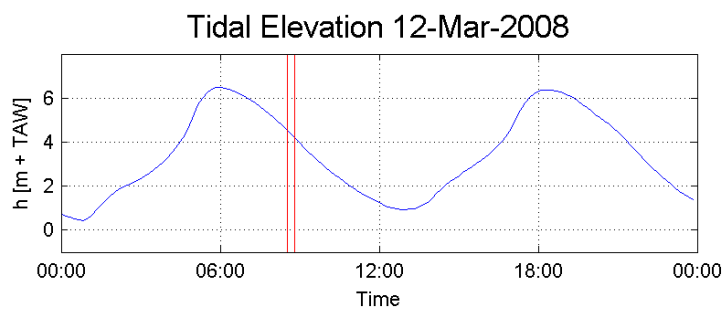
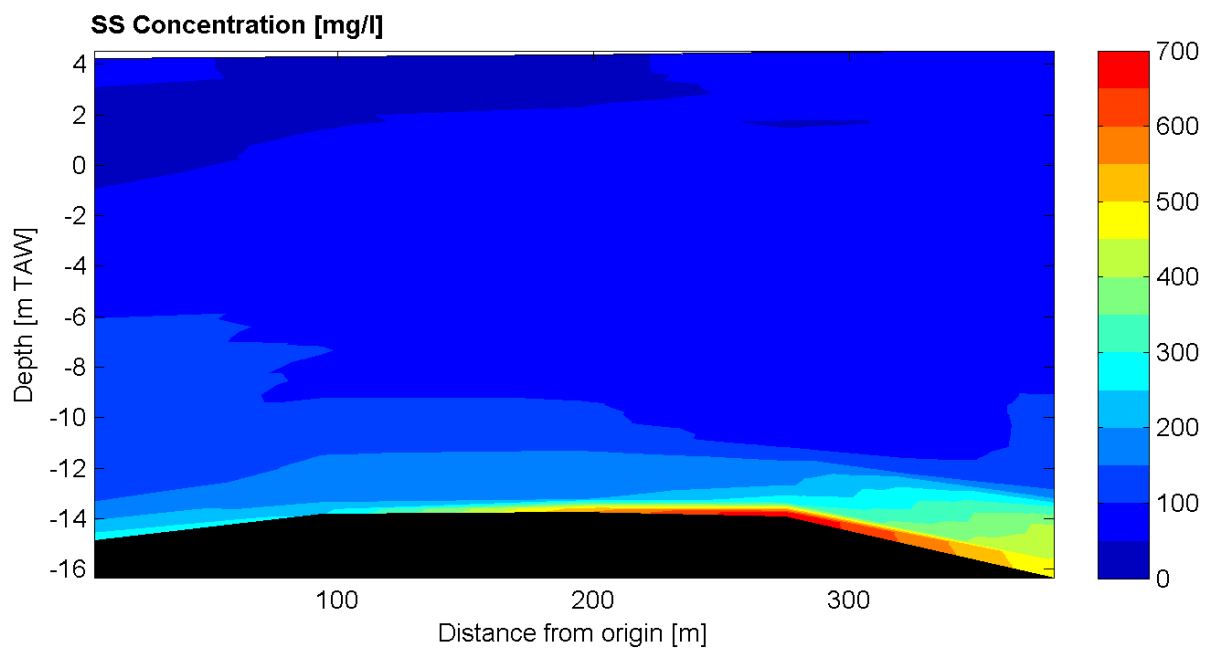
SiltProfiler

Sourcefile:

4010Ya.sil - 4006Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

08:47 - 08:32

Time after HW [HH:MM]

2:40

Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

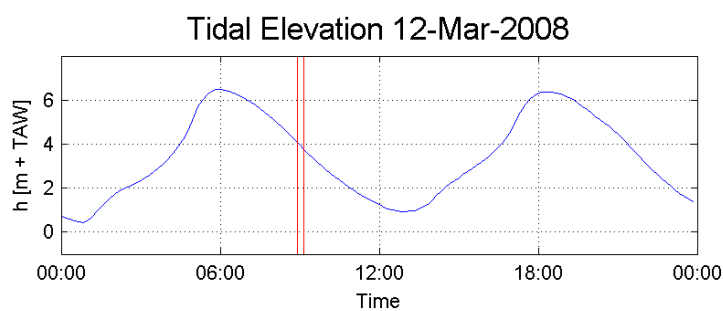
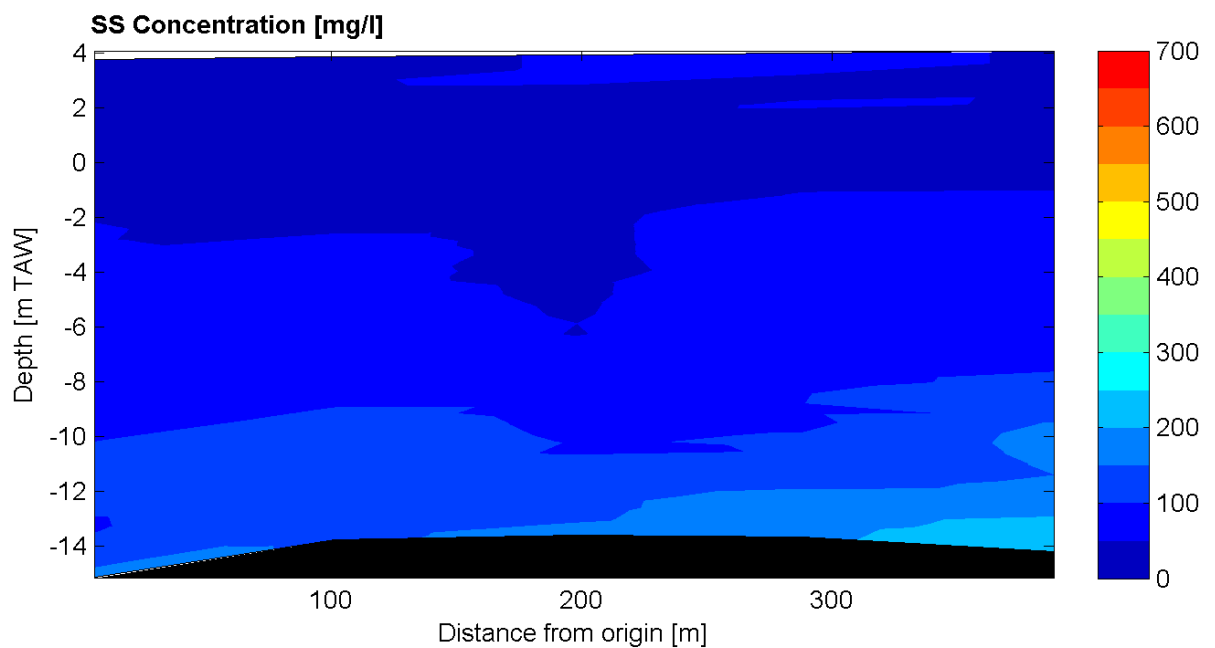
SiltProfiler

Sourcefile:

4015Za.sil - 4011Ze.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

09:09 - 08:54

Time after HW [HH:MM]

3:01

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

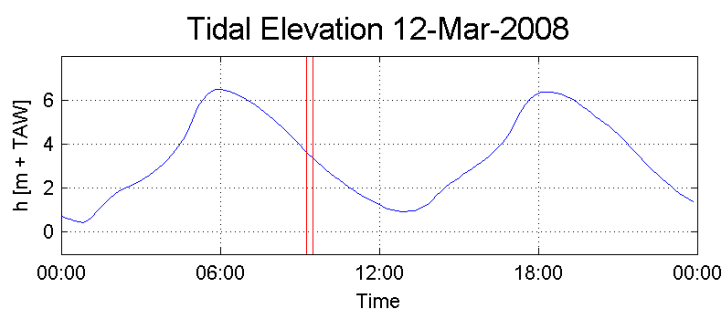
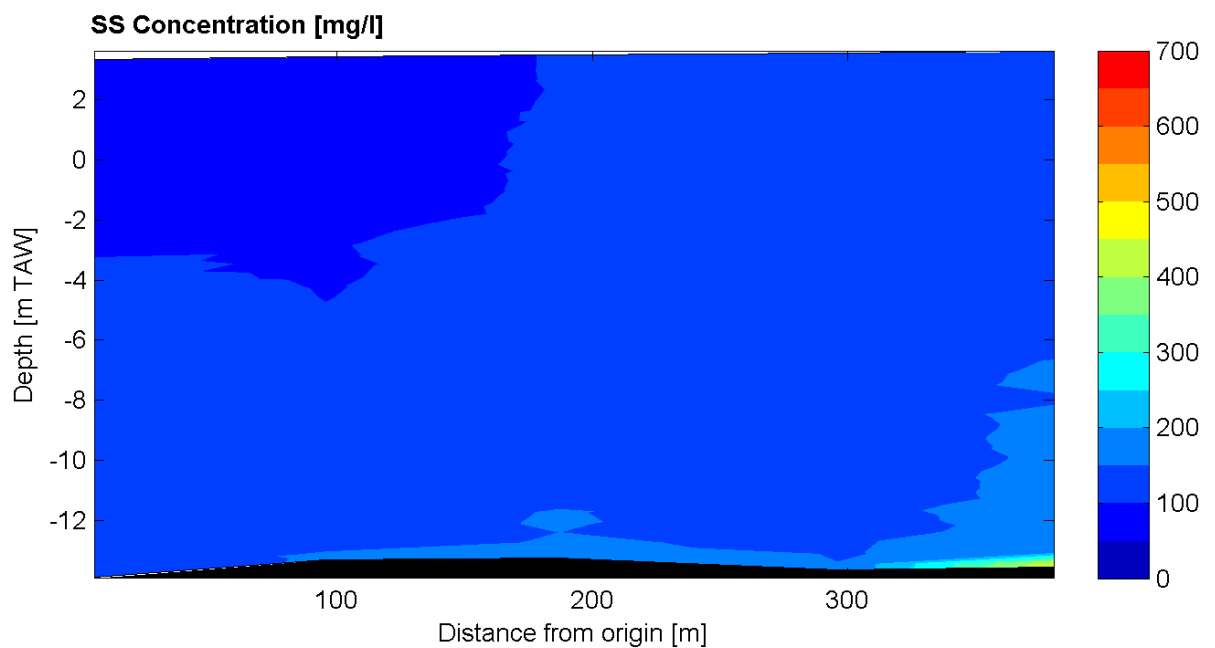
SiltProfiler

Sourcefile:

4020Xa.sil - 4016Xe.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

09:30 - 09:16

Time after HW [HH:MM]

3:23

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

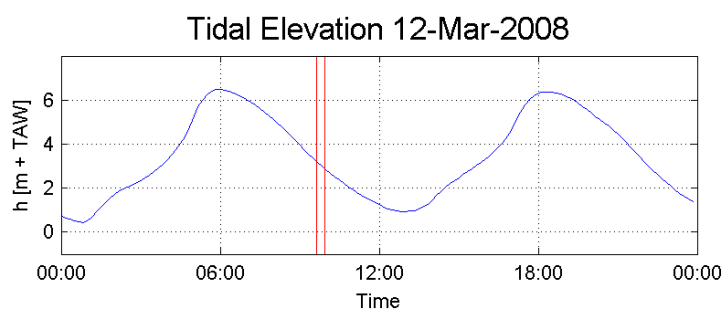
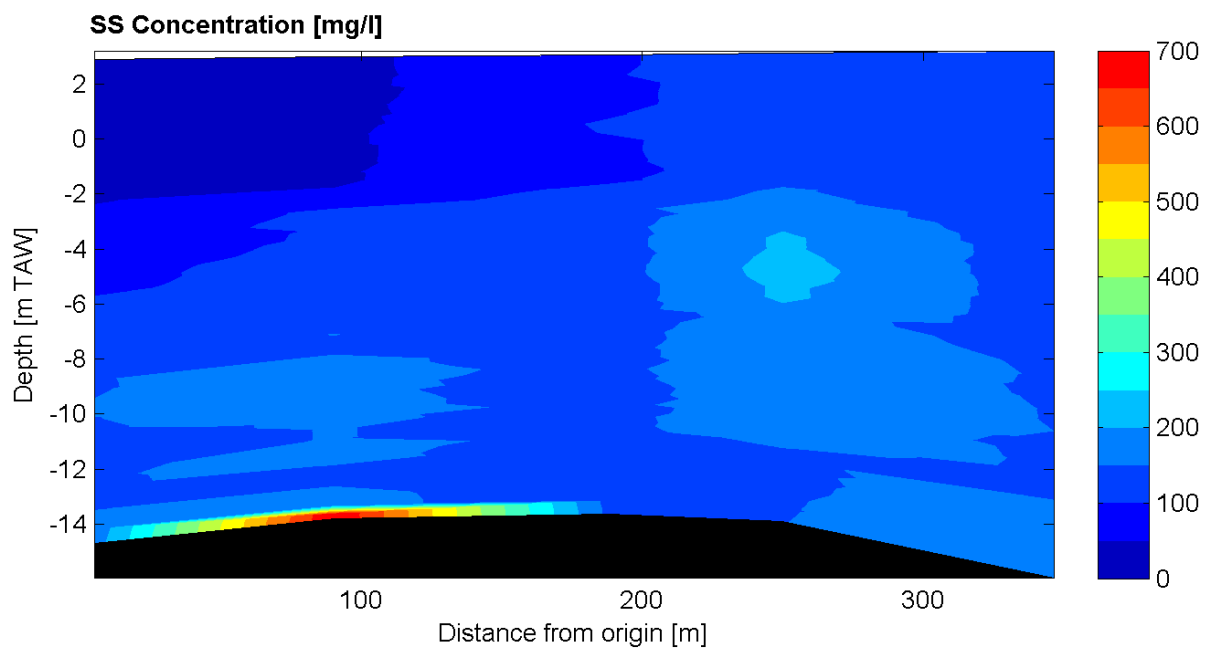
SiltProfiler

Sourcefile:

4025Ya.sil - 4021Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

09:56 - 09:38

Time after HW [HH:MM]

3:47

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

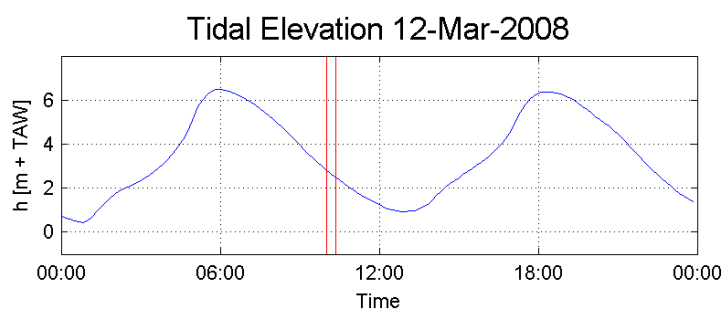
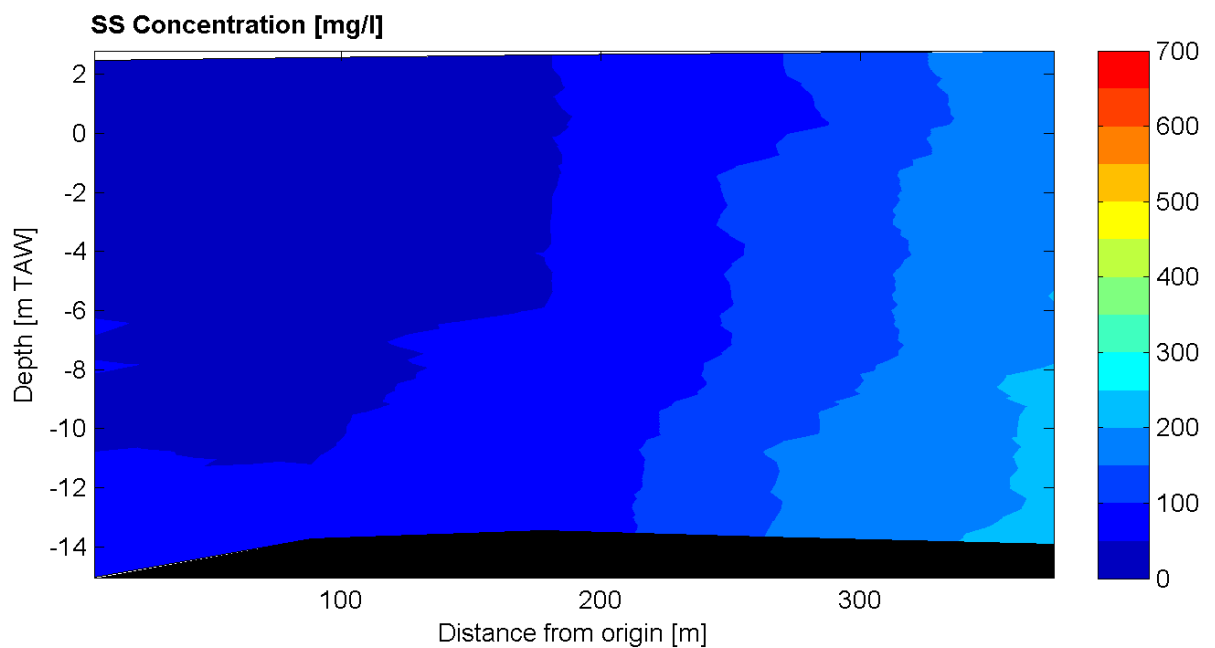
SiltProfiler

Sourcefile:

4030Za.sil - 4026Ze.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

10:22 - 10:02

Time after HW [HH:MM]

4:12

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

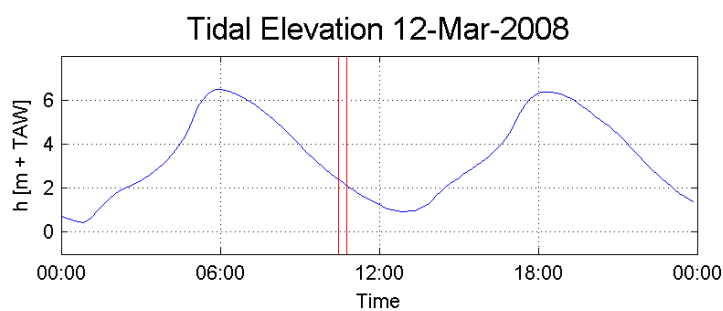
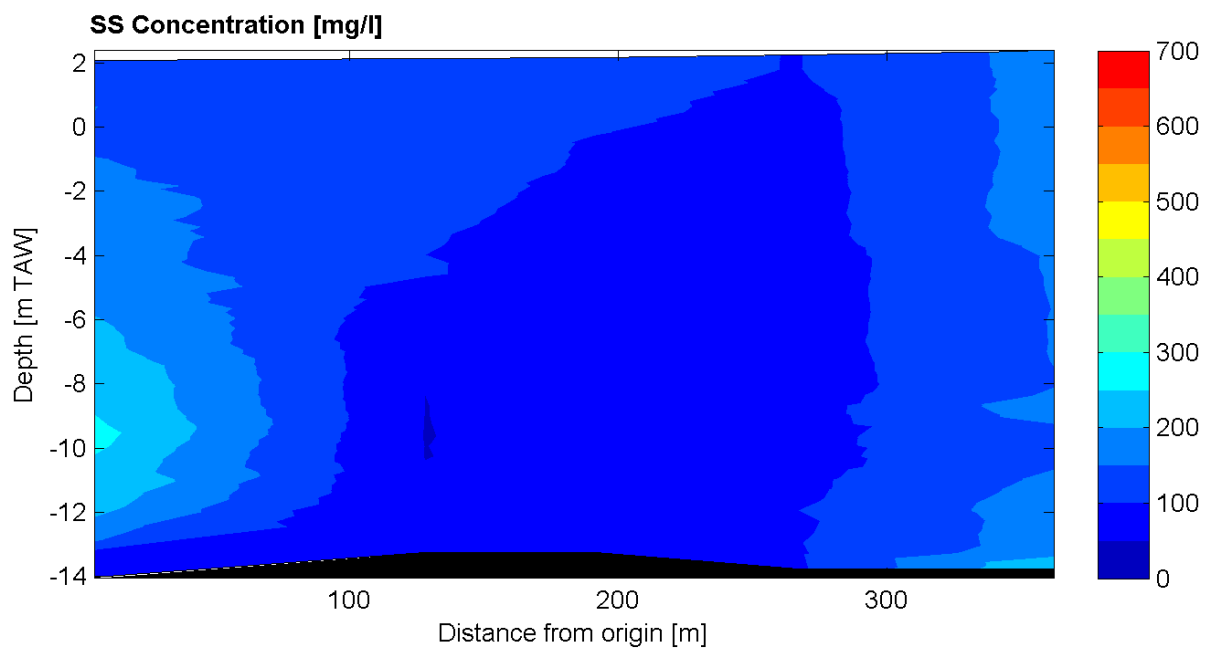
SiltProfiler

Sourcefile:

4035Xa.sil - 4031Xe.sil

Location:

Deurganckdok



Slack water:

06:00:	h = 6.49 m+TAW
18:20:	h = 6.36 m+TAW
13:00:	h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

10:47 - 10:28

Time after HW [HH:MM]

4:38

Data Processed by:

In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

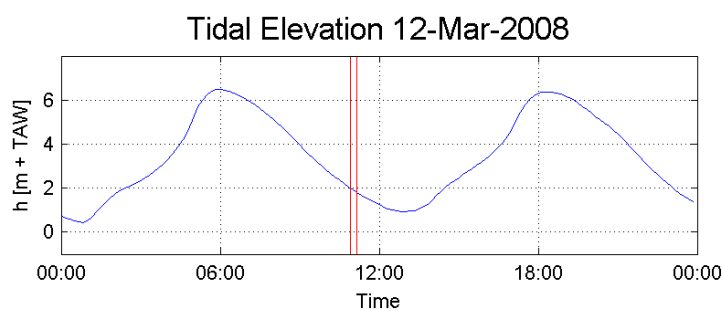
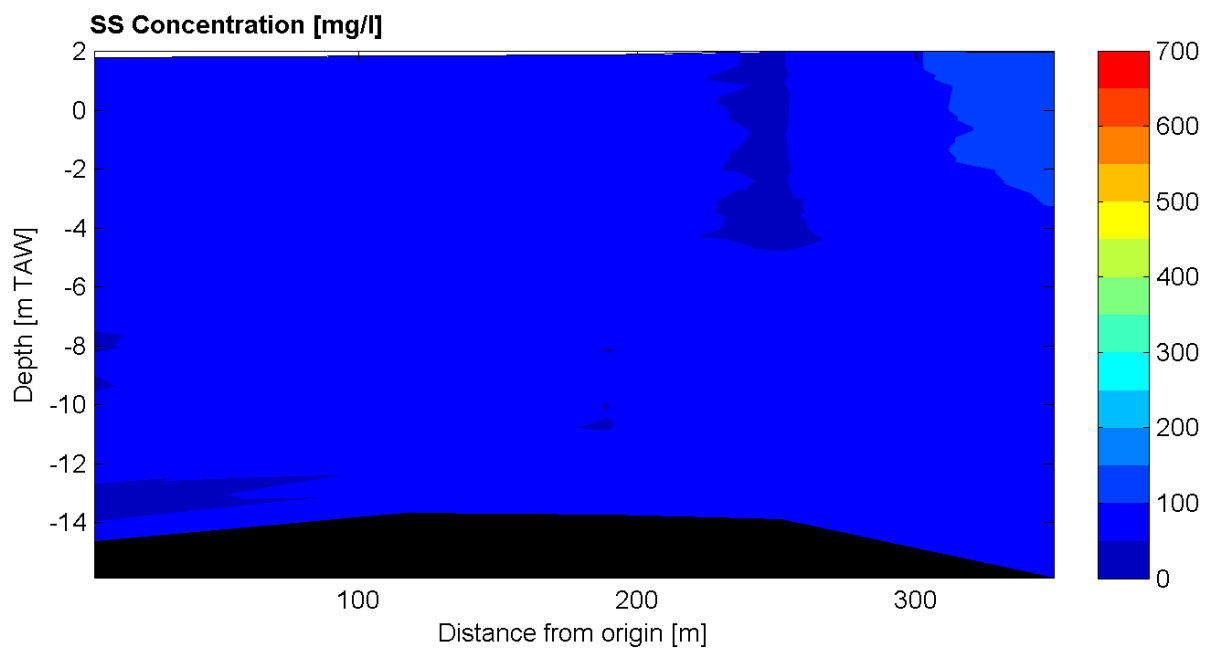
SiltProfiler

Sourcefile:

4040Ya.sil - 4036Ye.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

11:09 - 10:55

Time after HW [HH:MM]

5:02

Data Processed by:

In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

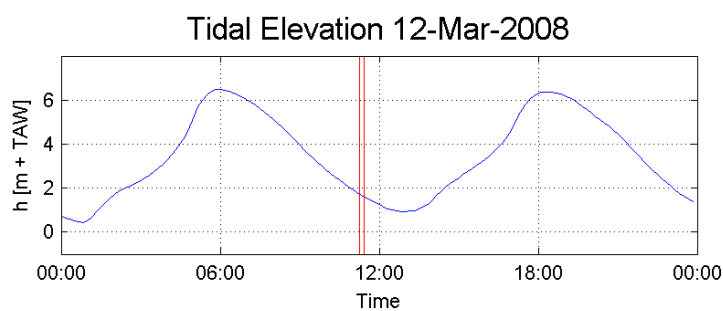
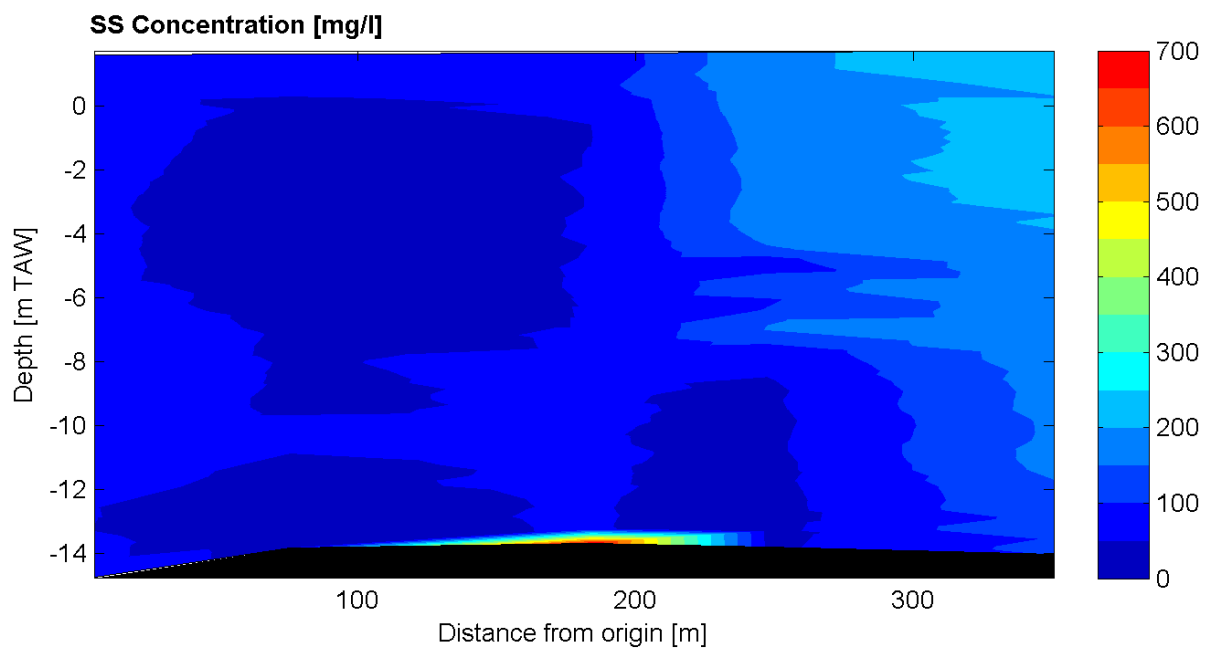
SiltProfiler

Sourcefile:

4045Za.sil - 4041Ze.sil

Location:

Deurganckdok



Slack water:

06:00:	h = 6.49 m+TAW
18:20:	h = 6.36 m+TAW
13:00:	h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

11:26 - 11:15

Time after HW [HH:MM]

5:21

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

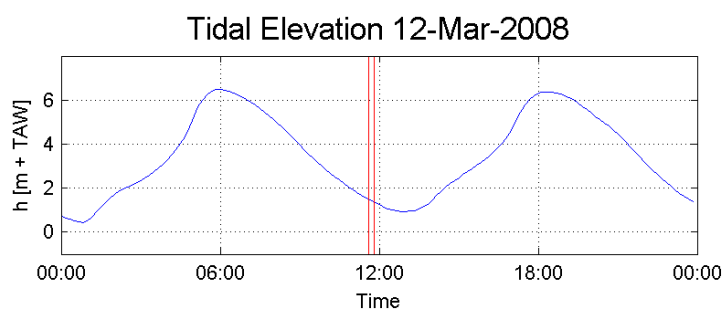
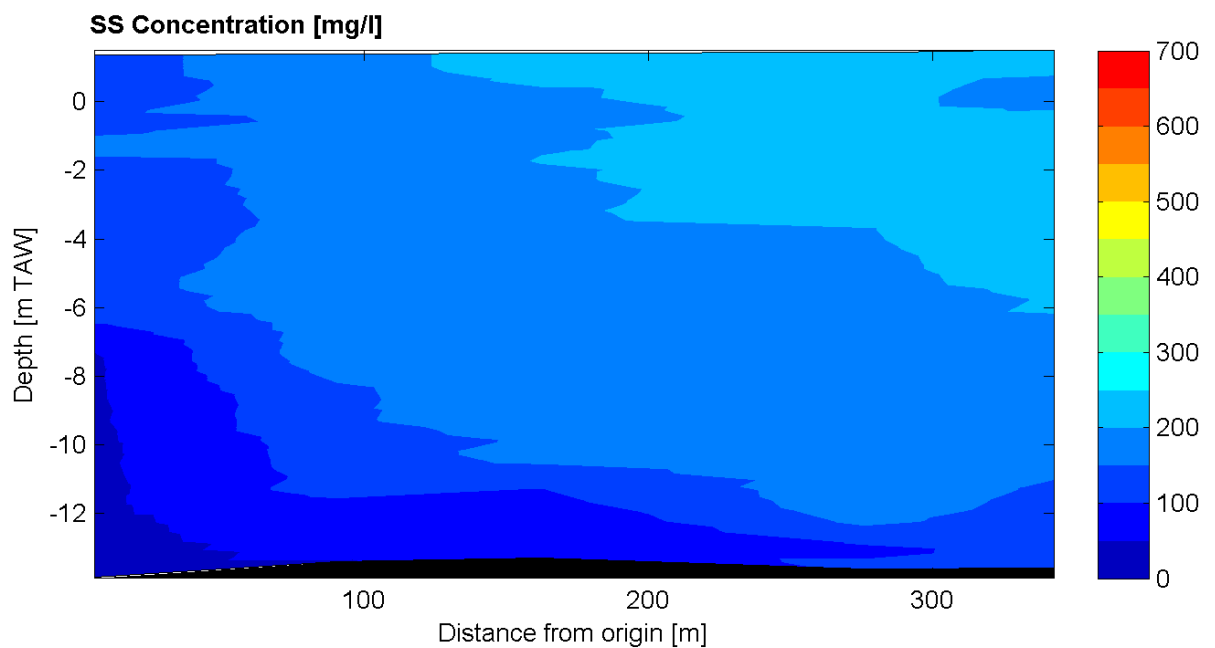
SiltProfiler

Sourcefile:

4051Xa.sil - 4047Xe.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

11:48 - 11:37

Time after HW [HH:MM]

5:42

Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

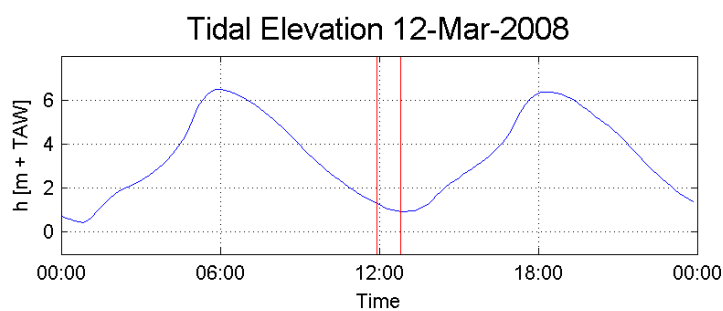
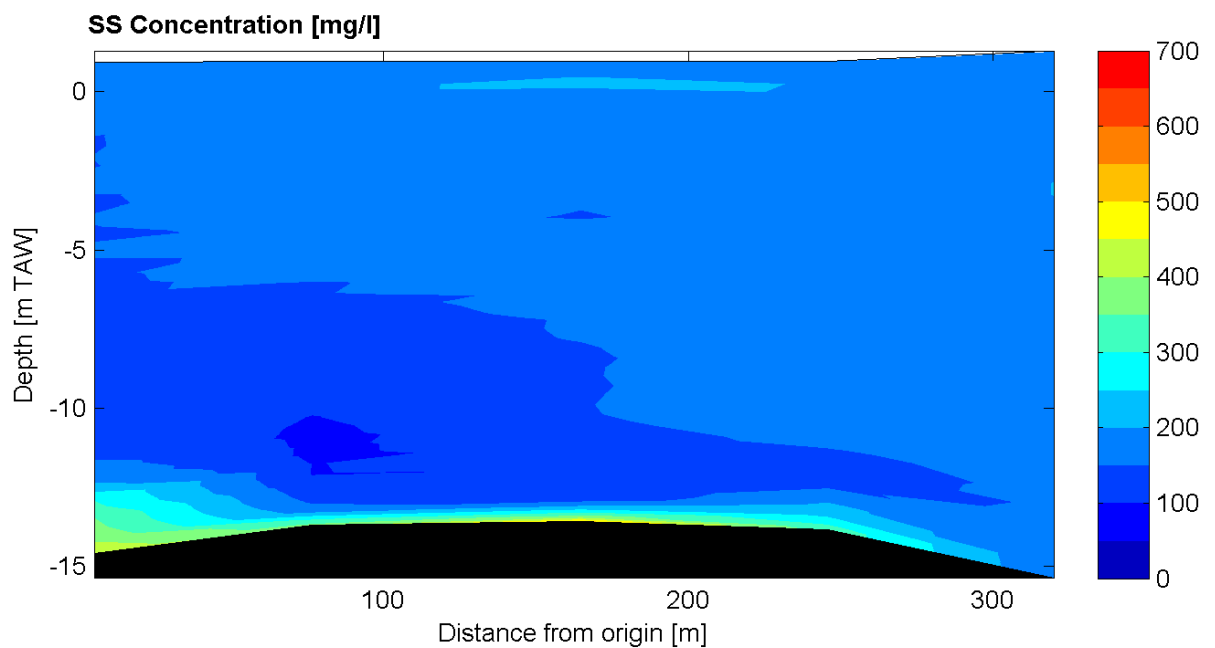
SiltProfiler

Sourcefile:

4056Ya.sil - 4052Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

12:47 - 11:55

Time after HW [HH:MM]

6:21

Data Processed by:

In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

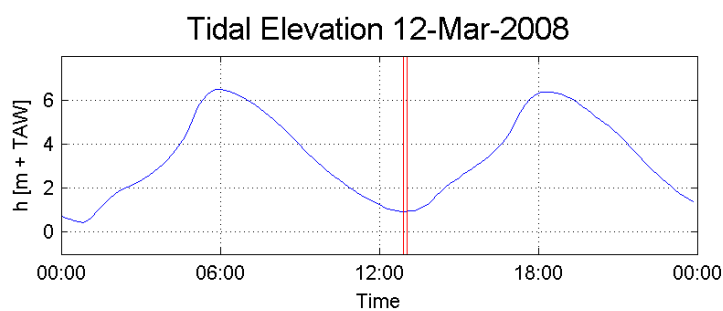
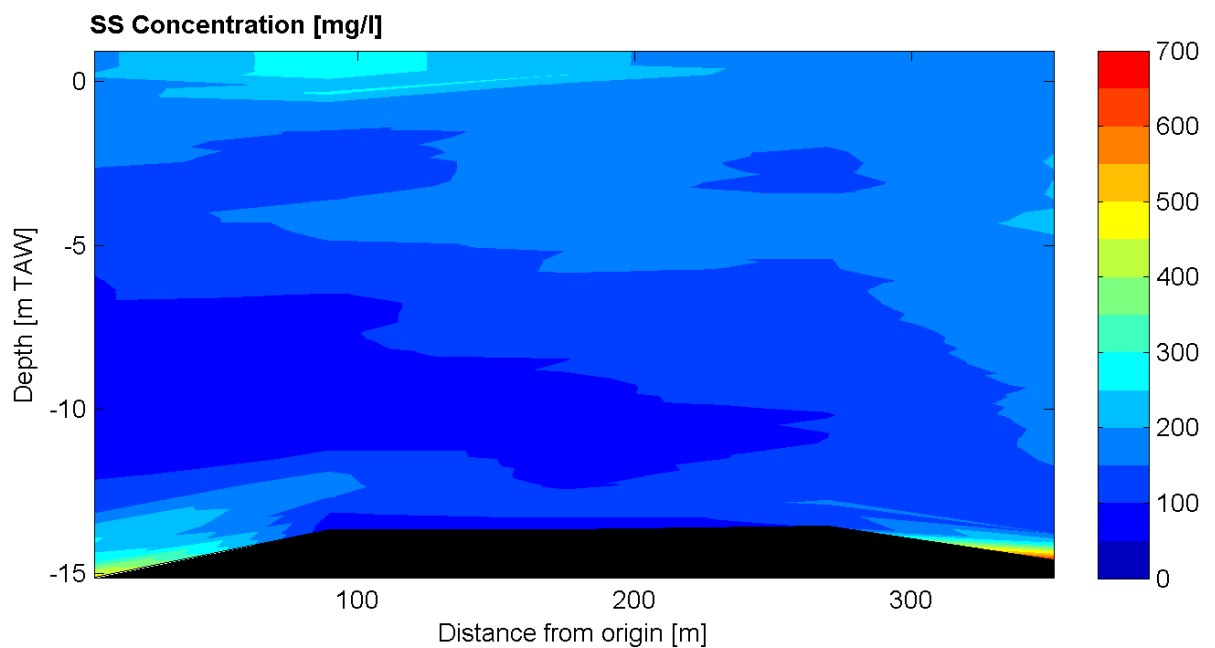
SiltProfiler

Sourcefile:

4061Za.sil - 4057Ze.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

13:03 - 12:54

Time after HW [HH:MM]

6:59

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

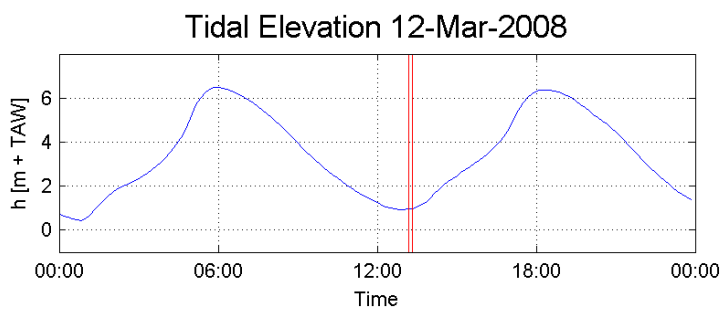
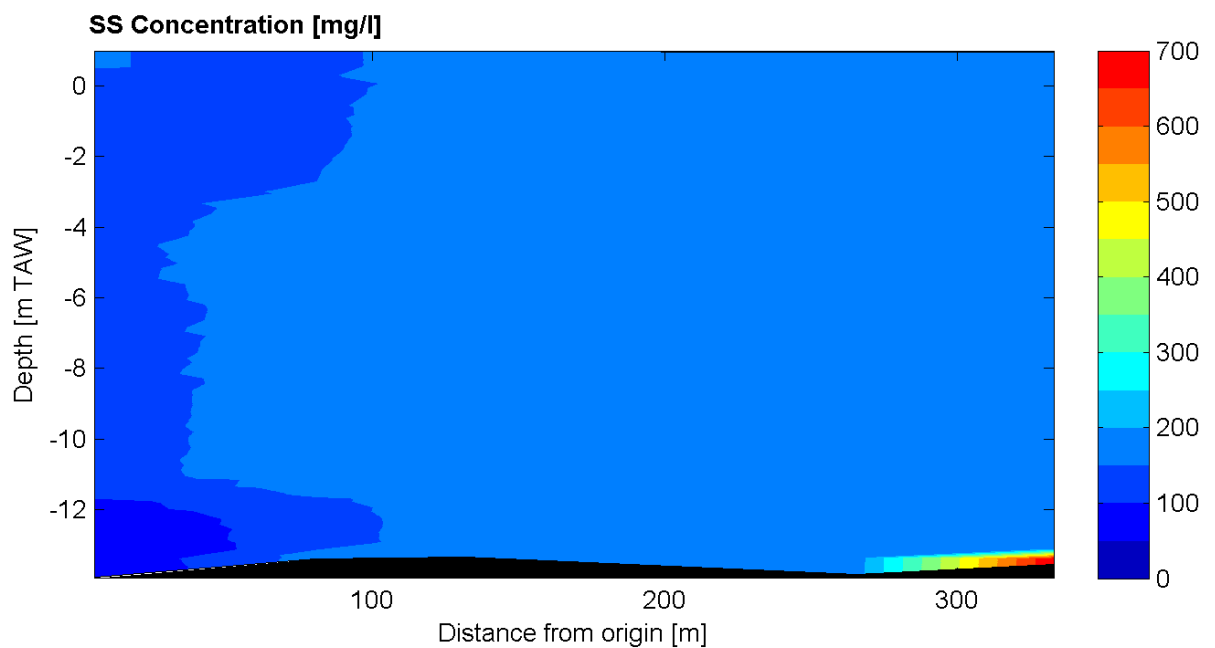
SiltProfiler

Sourcefile:

4066Xa.sil - 4062Xe.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

13:20 - 13:10

Time after HW [HH:MM]

-5:04

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

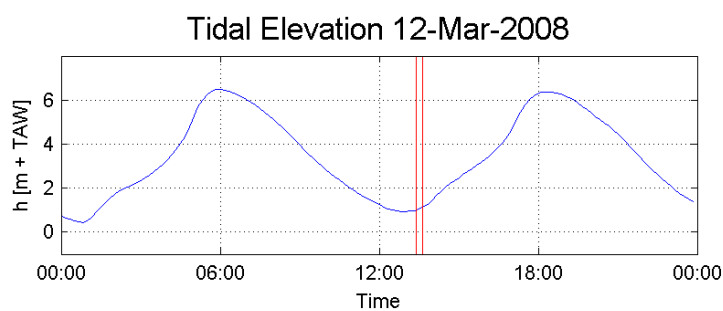
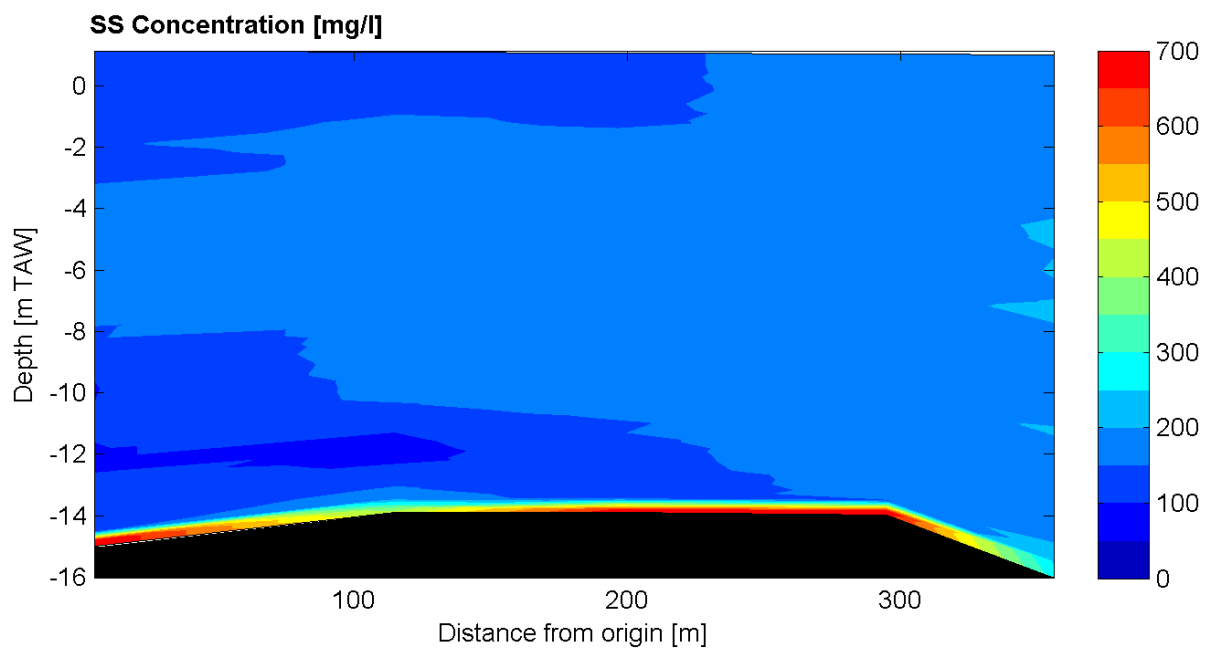
SiltProfiler

Sourcefile:

4071Ya.sil - 4067Ye.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

13:38 - 13:24

Time after HW [HH:MM]

-4:48

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

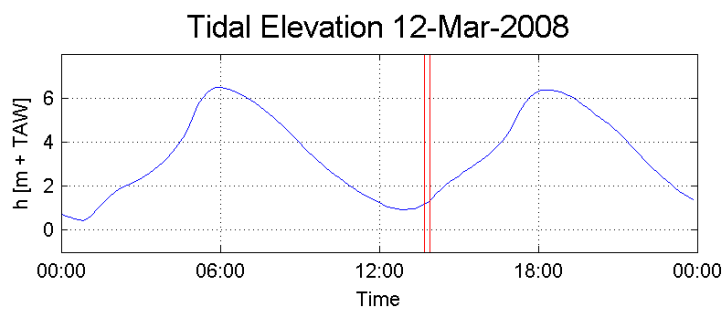
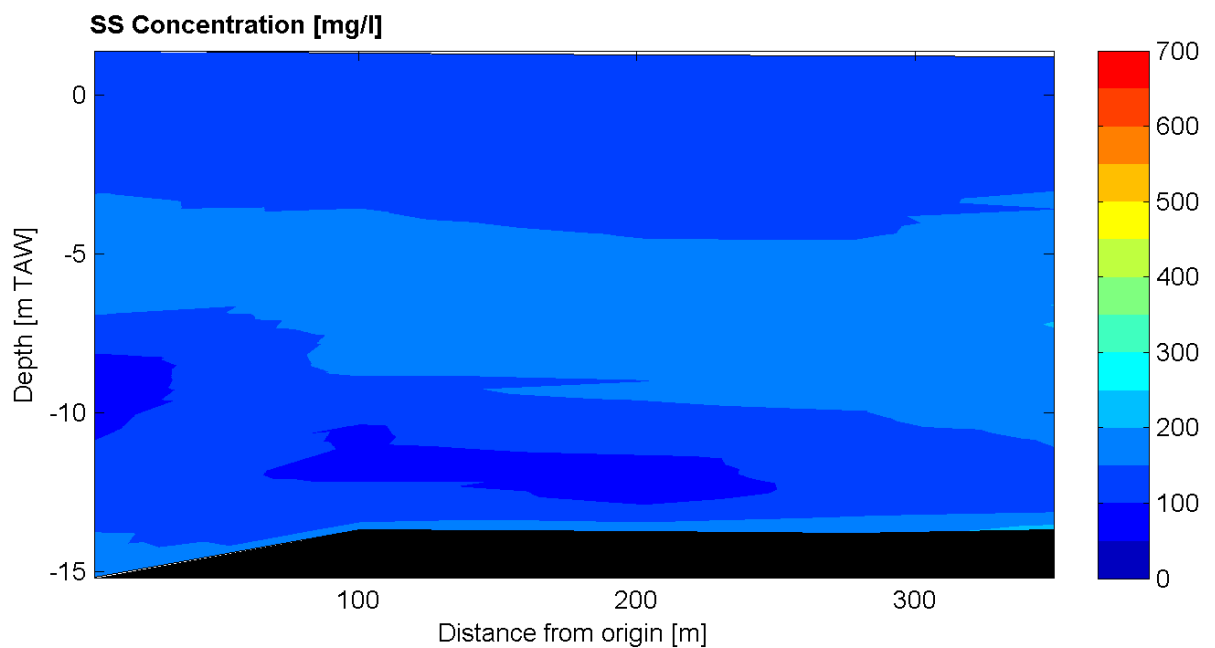
SiltProfiler

Sourcefile:

4076Za.sil - 4072Ze.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

13:55 - 13:42

Time after HW [HH:MM]

-4:30

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

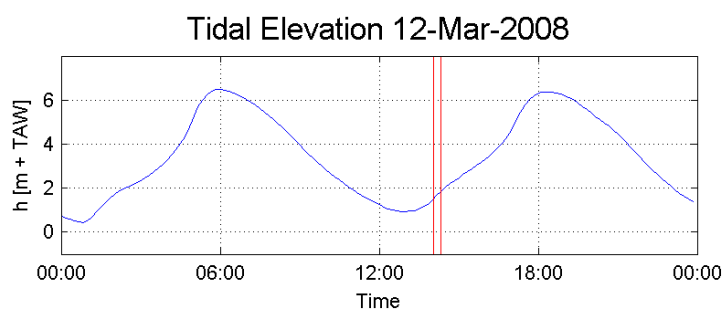
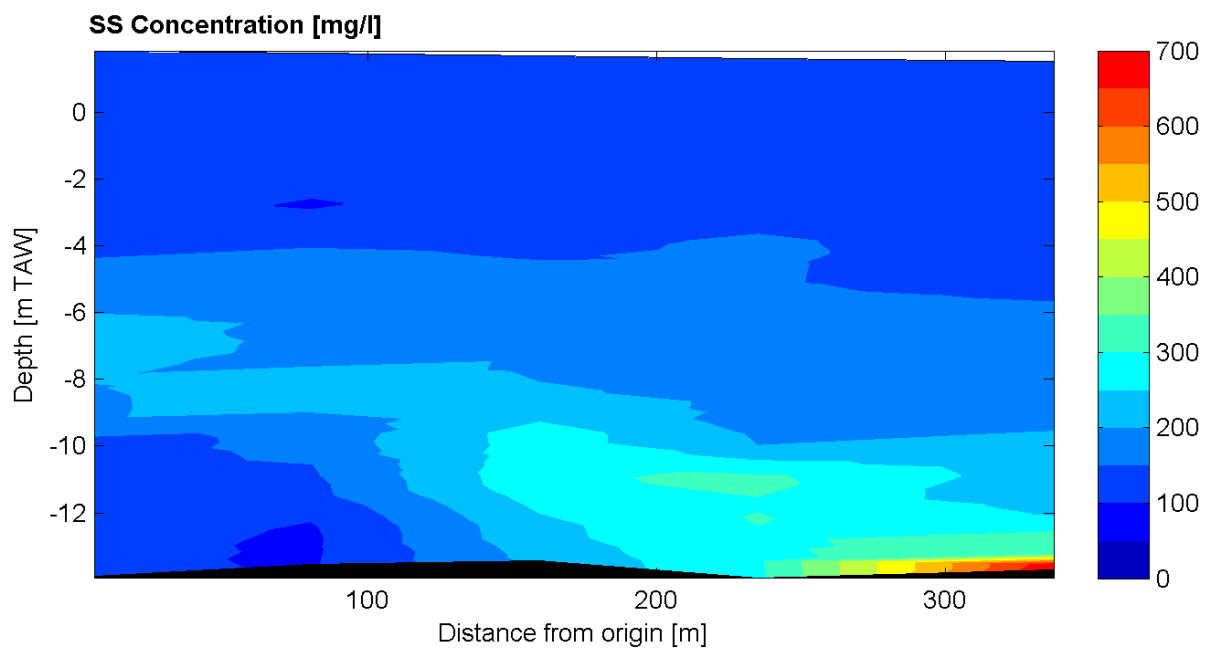
SiltProfiler

Sourcefile:

4081Xa.sil - 4077Xe.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

14:19 - 14:02

Time after HW [HH:MM]

-4:09

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

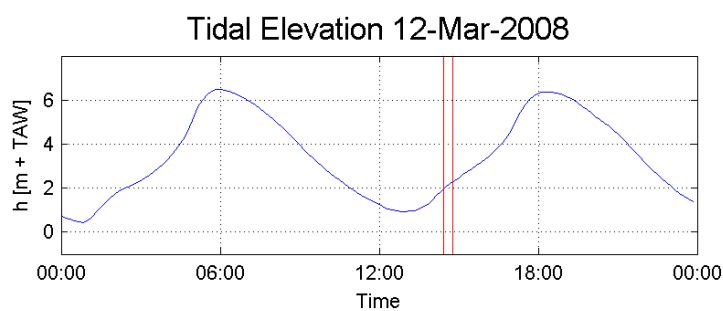
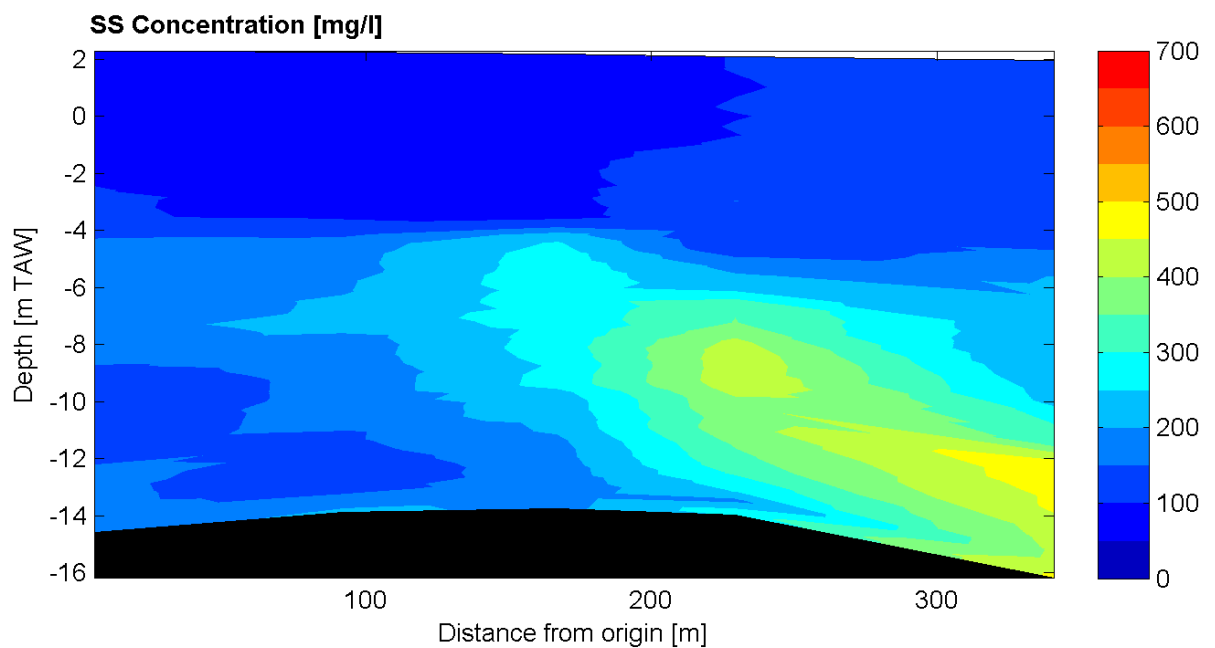
SiltProfiler

Sourcefile:

4086Ya.sil - 4082Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

14:45 - 14:24

Time after HW [HH:MM]

-3:44

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

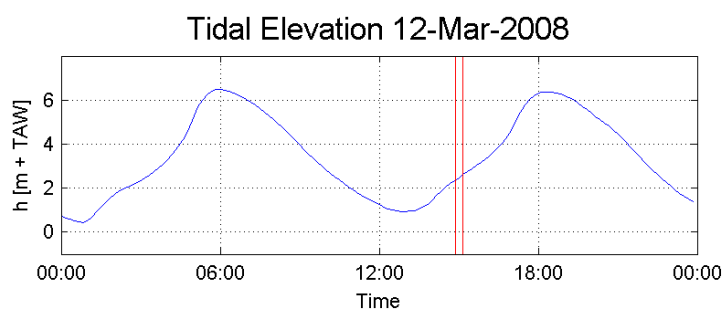
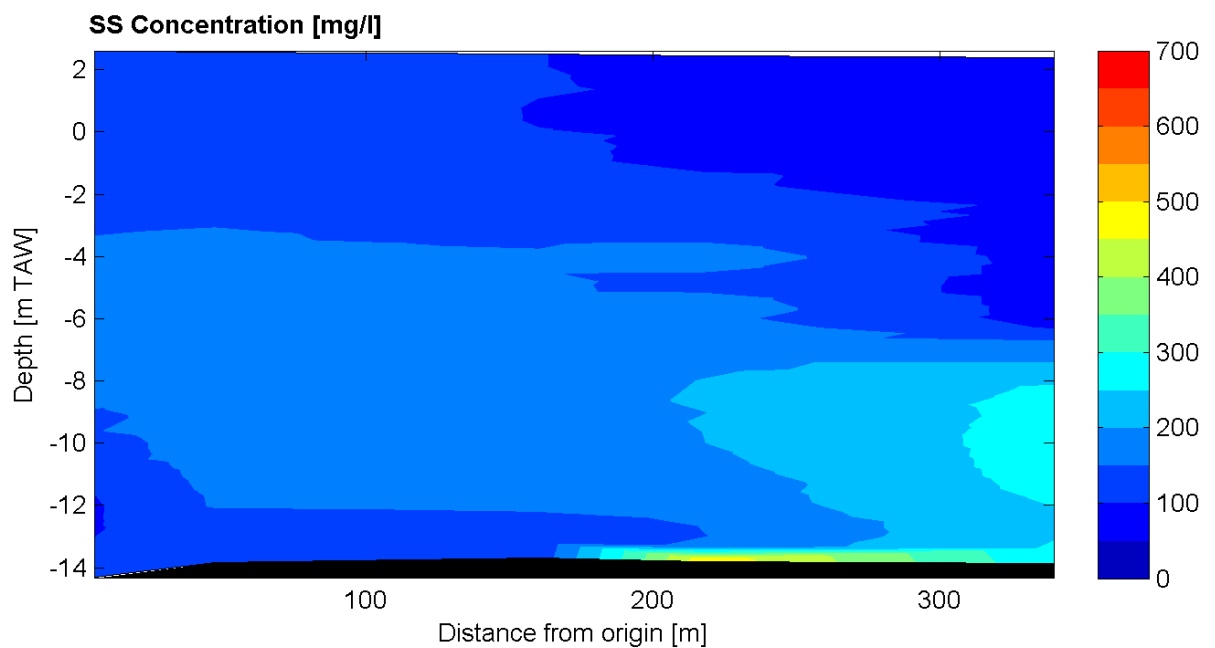
SiltProfiler

Sourcefile:

4091Za.sil - 4087Ze.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

15:09 - 14:53

Time after HW [HH:MM]

-3:18

Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

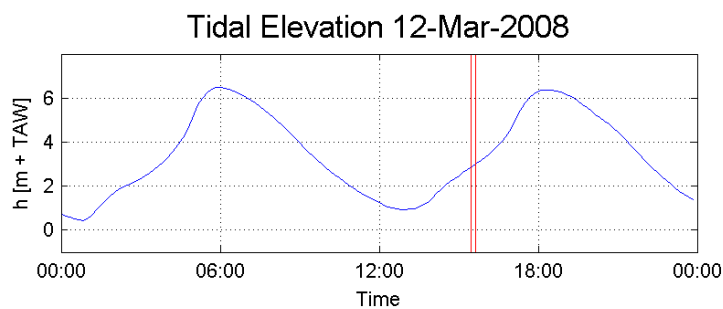
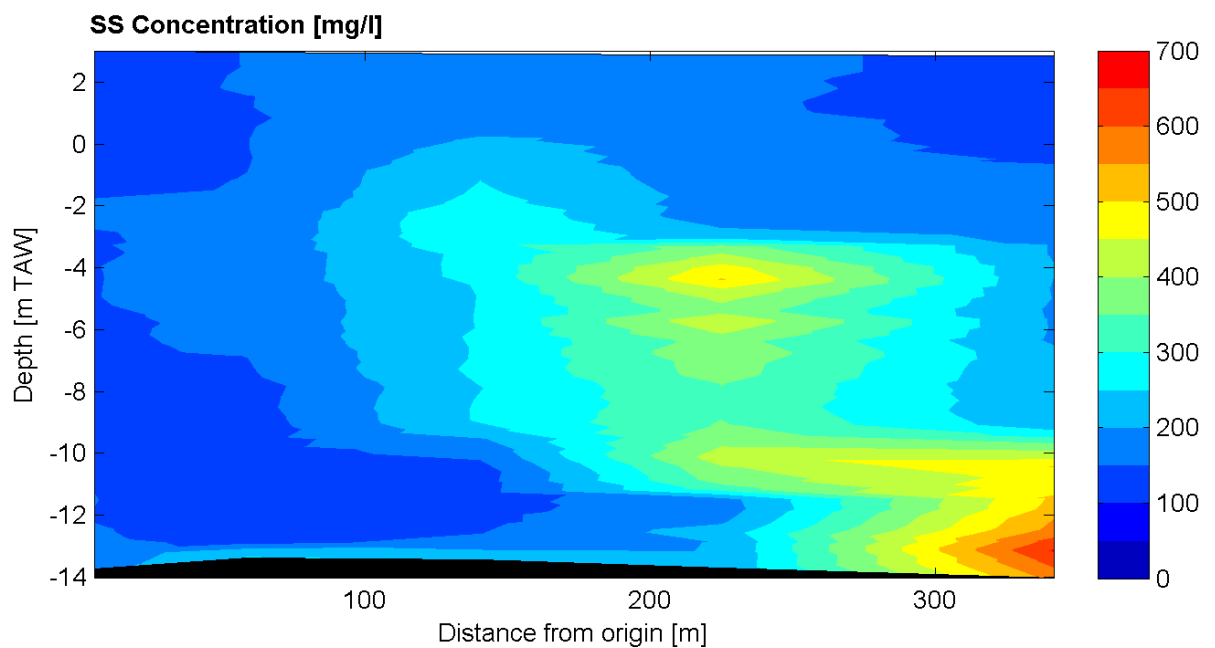
SiltProfiler

Sourcefile:

4097Xa.sil - 4093Xe.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

15:38 - 15:27

Time after HW [HH:MM]

-2:46

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

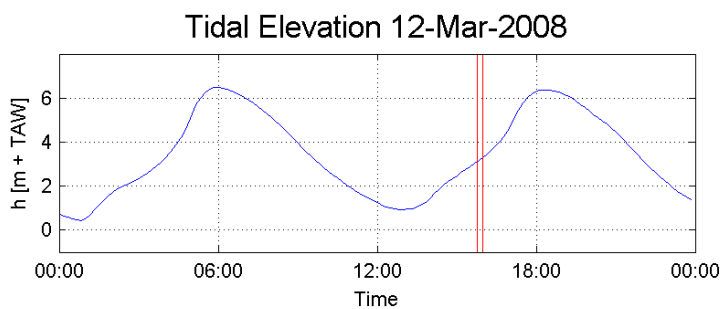
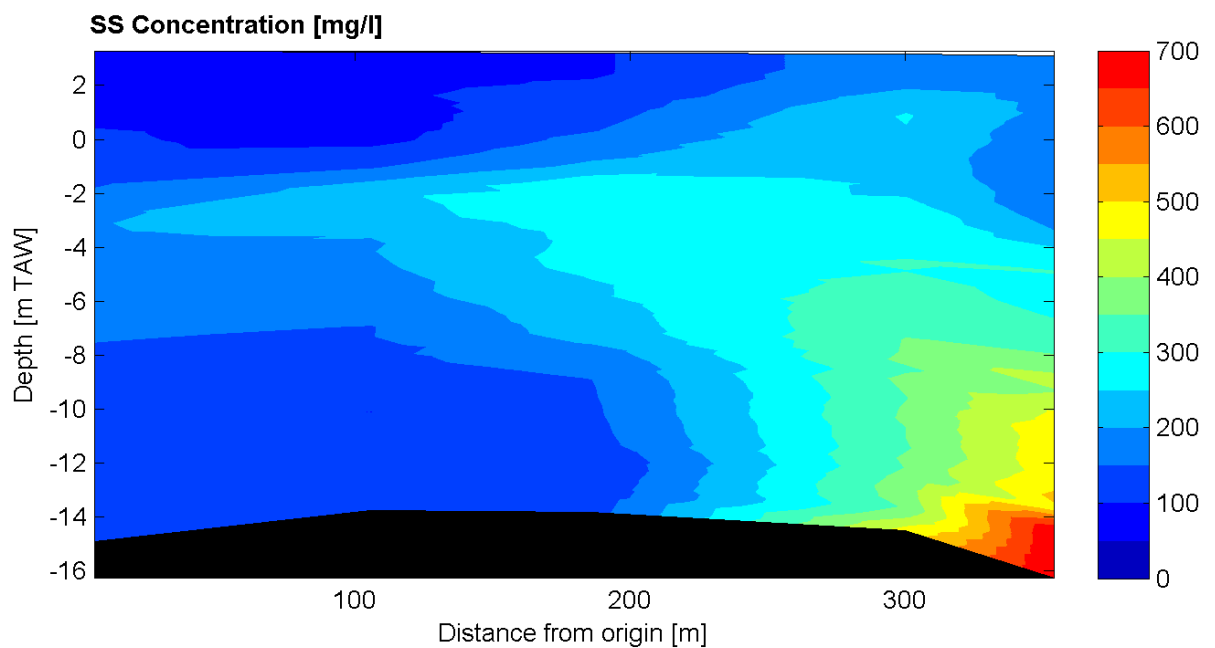
SiltProfiler

Sourcefile:

4102Ya.sil - 4098Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

15:58 - 15:45

Time after HW [HH:MM]

-2:28

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

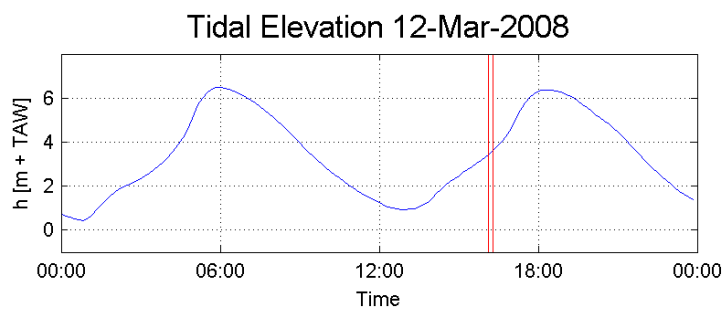
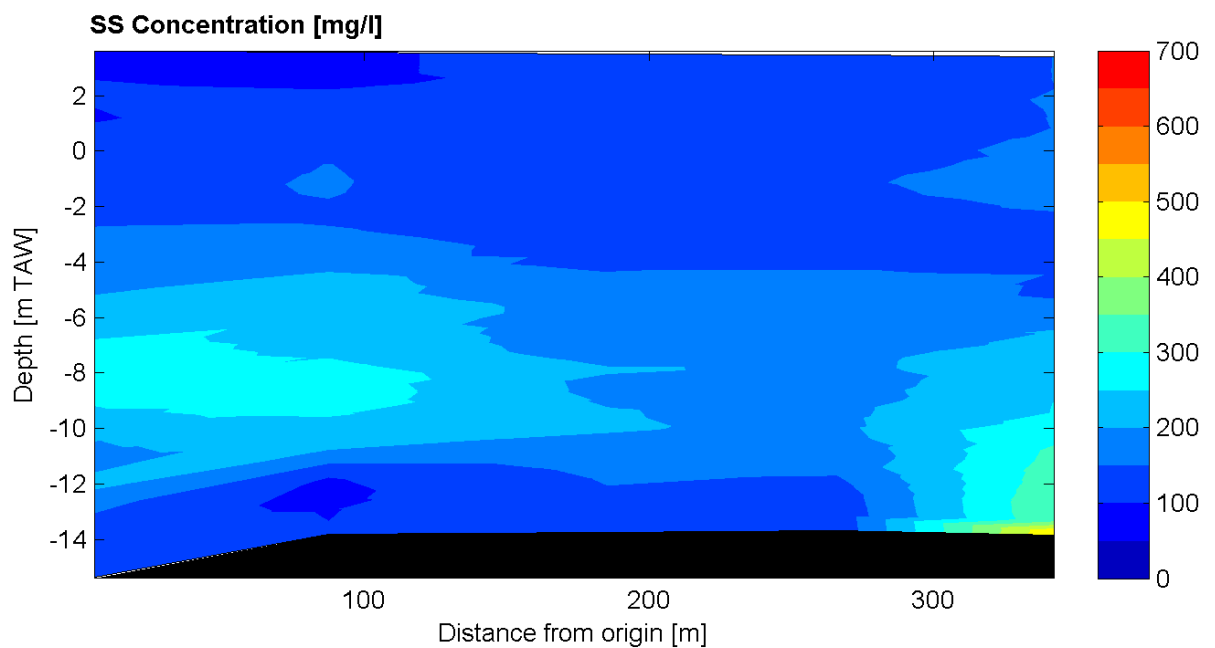
SiltProfiler

Sourcefile:

4107Za.sil - 4103Ze.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

16:17 - 16:06

Time after HW [HH:MM]

-2:07

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

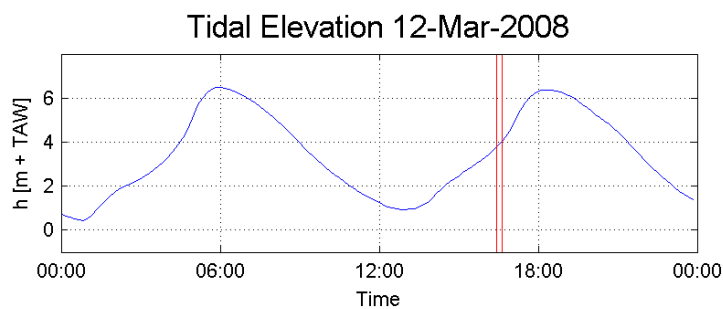
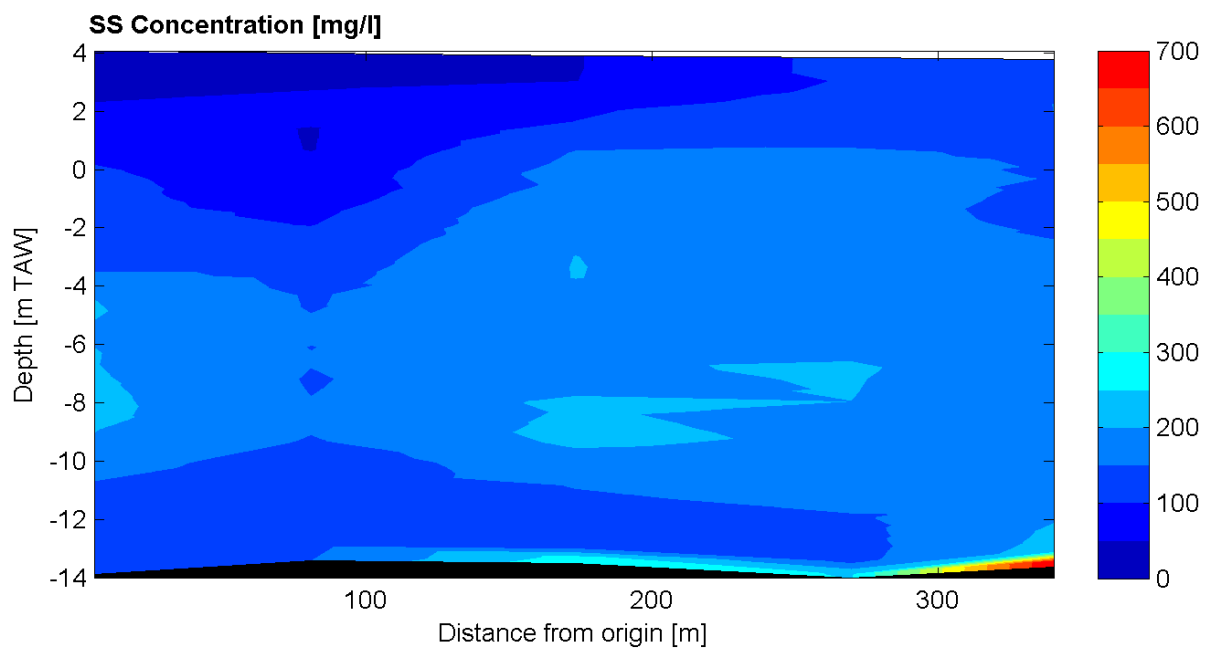
SiltProfiler

Sourcefile:

4112Xa.sil - 4108Xe.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

16:39 - 16:25

Time after HW [HH:MM]

-1:47

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

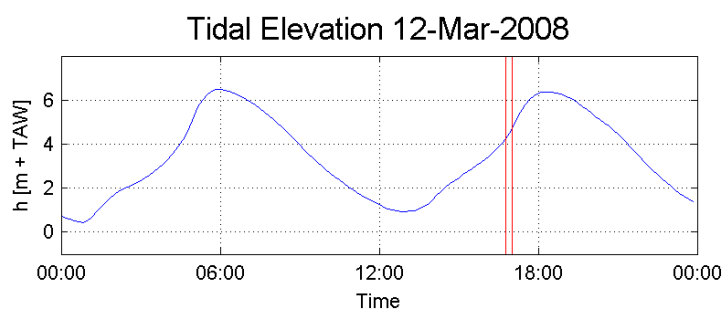
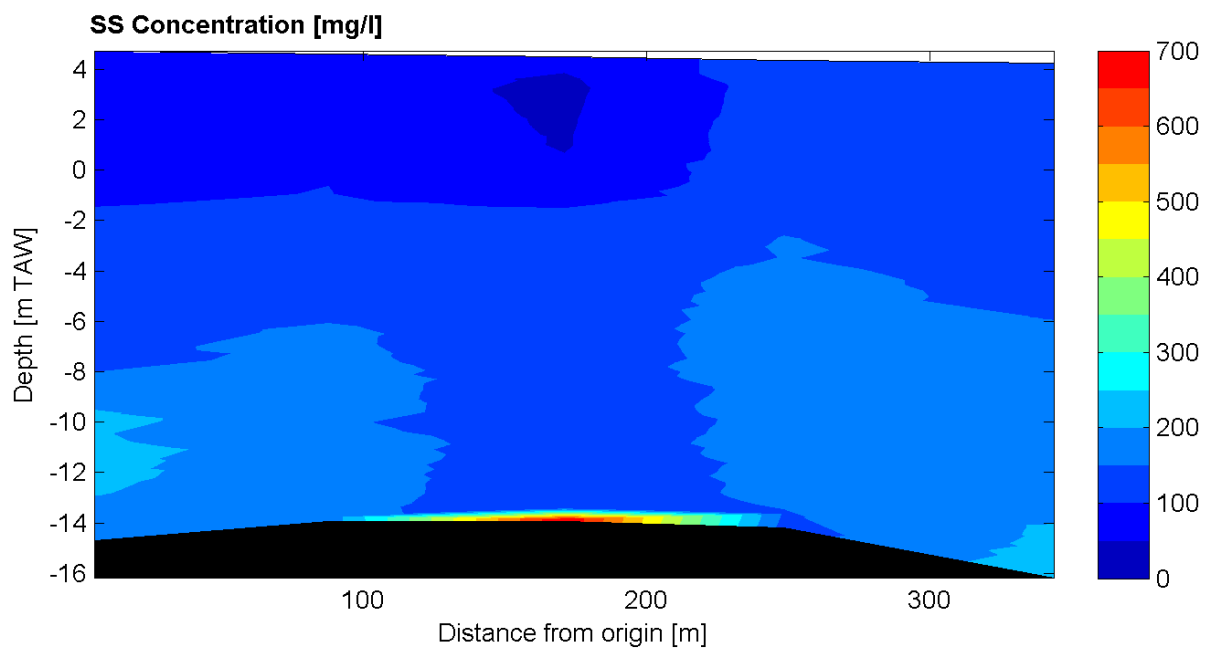
SiltProfiler

Sourcefile:

4117Ya.sil - 4113Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

17:00 - 16:45

Time after HW [HH:MM]

-1:27

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

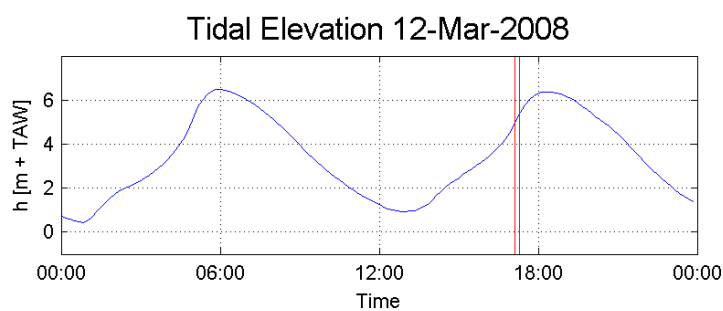
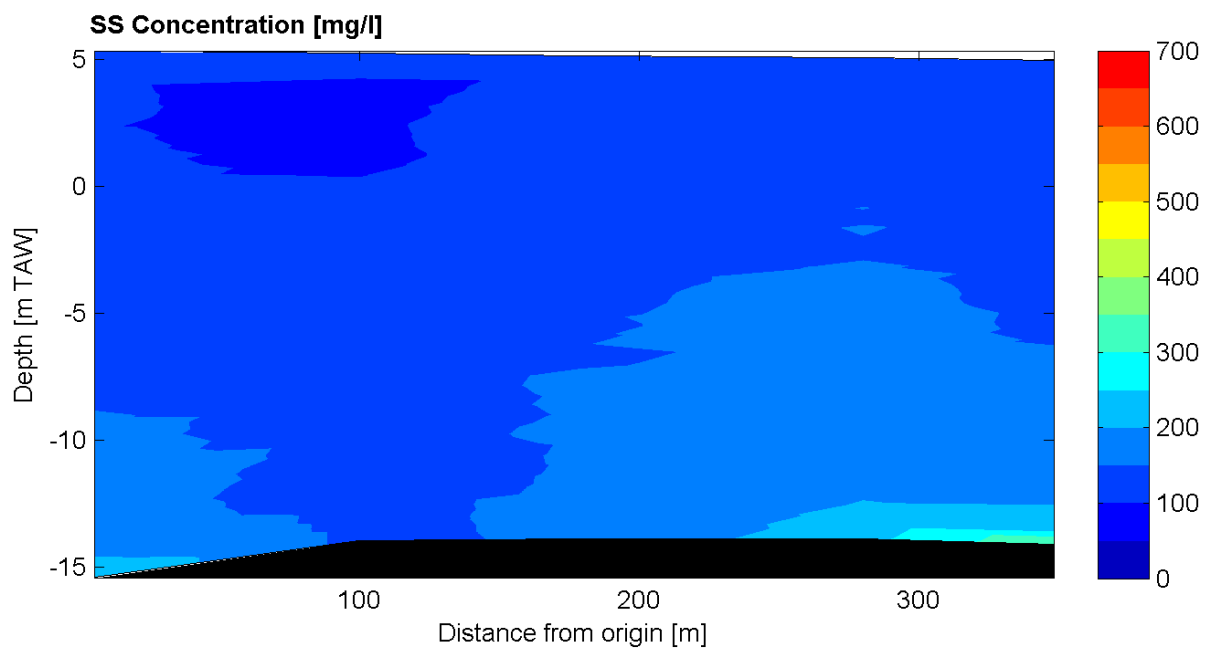
SiltProfiler

Sourcefile:

4122Za.sil - 4118Ze.sil

Location:

Deurganckdok



Slack water:

06:00:	h = 6.49 m+TAW
18:20:	h = 6.36 m+TAW
13:00:	h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

17:17 - 17:06

Time after HW [HH:MM]

-1:08

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

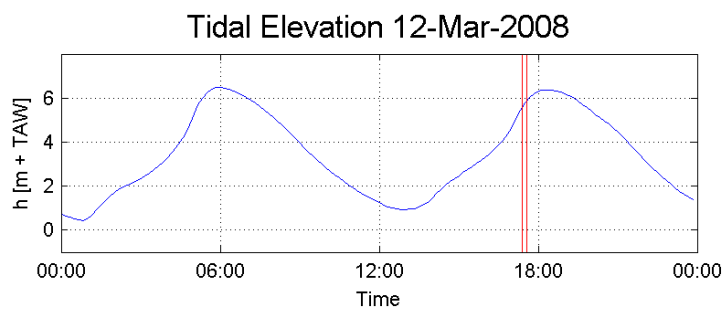
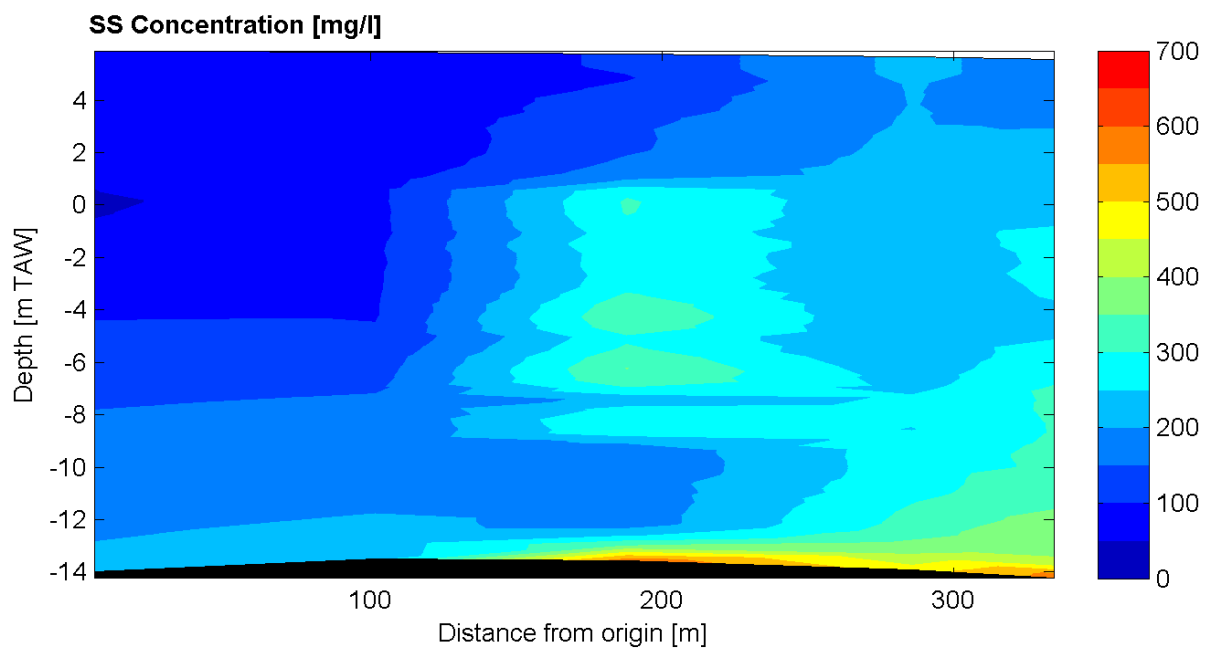
SiltProfiler

Sourcefile:

4127Xa.sil - 4123Xe.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

17:34 - 17:23

Time after HW [HH:MM]

-0:50

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

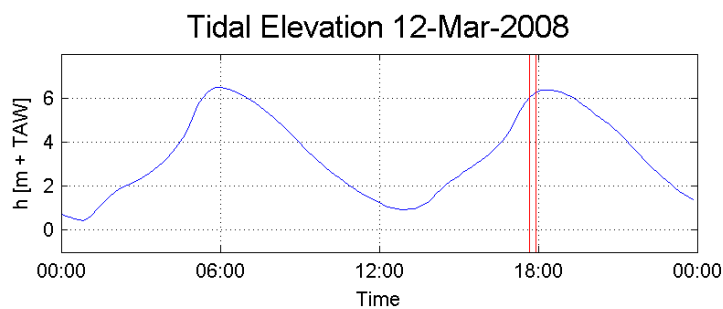
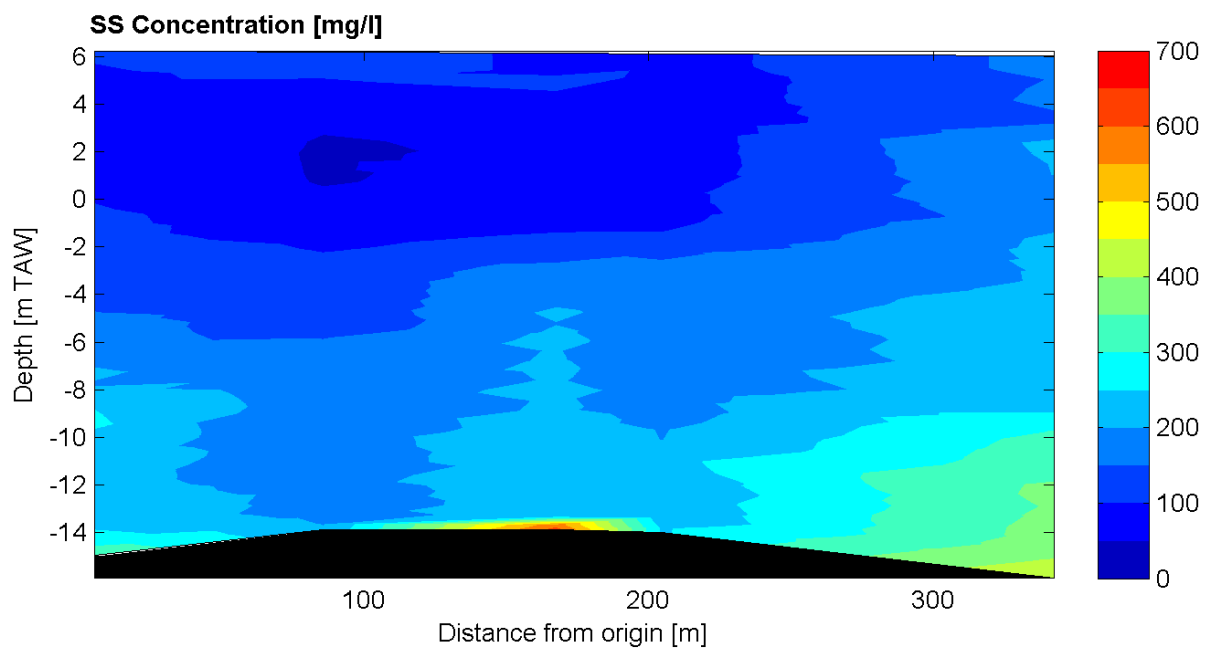
SiltProfiler

Sourcefile:

4132Ya.sil - 4128Ye.sil

Location:

Deurganckdok



06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

17:54 - 17:40

Time after HW [HH:MM]

-0:32

Data Processed by:

In association with :

I/RA/11283/07.091/MSA





# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

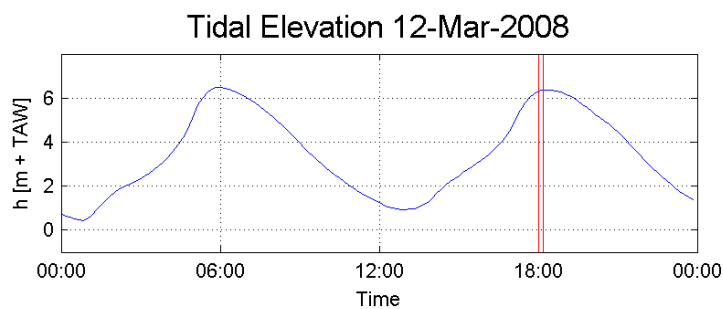
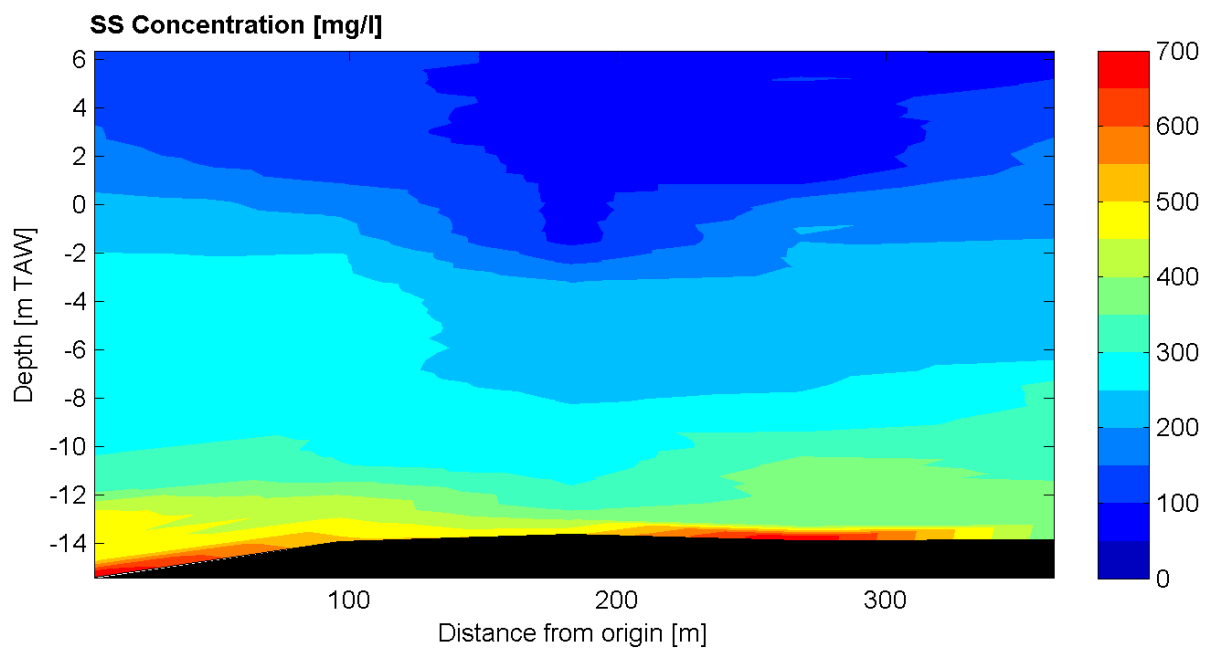
SiltProfiler

Sourcefile:

4137Za.sil - 4133Ze.sil

Location:

Deurganckdok



Slack water:

06:00:	h = 6.49 m+TAW
18:20:	h = 6.36 m+TAW
13:00:	h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

18:12 - 18:00

Time after HW [HH:MM]

-0:13

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

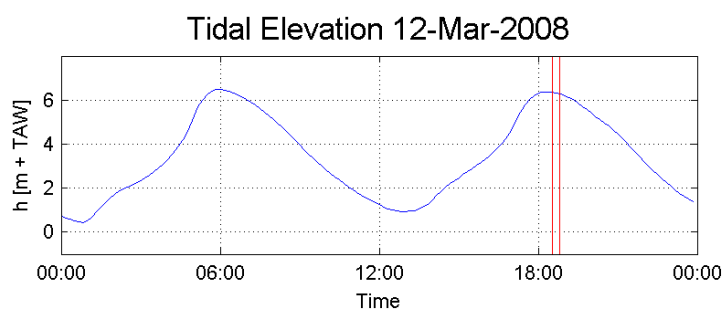
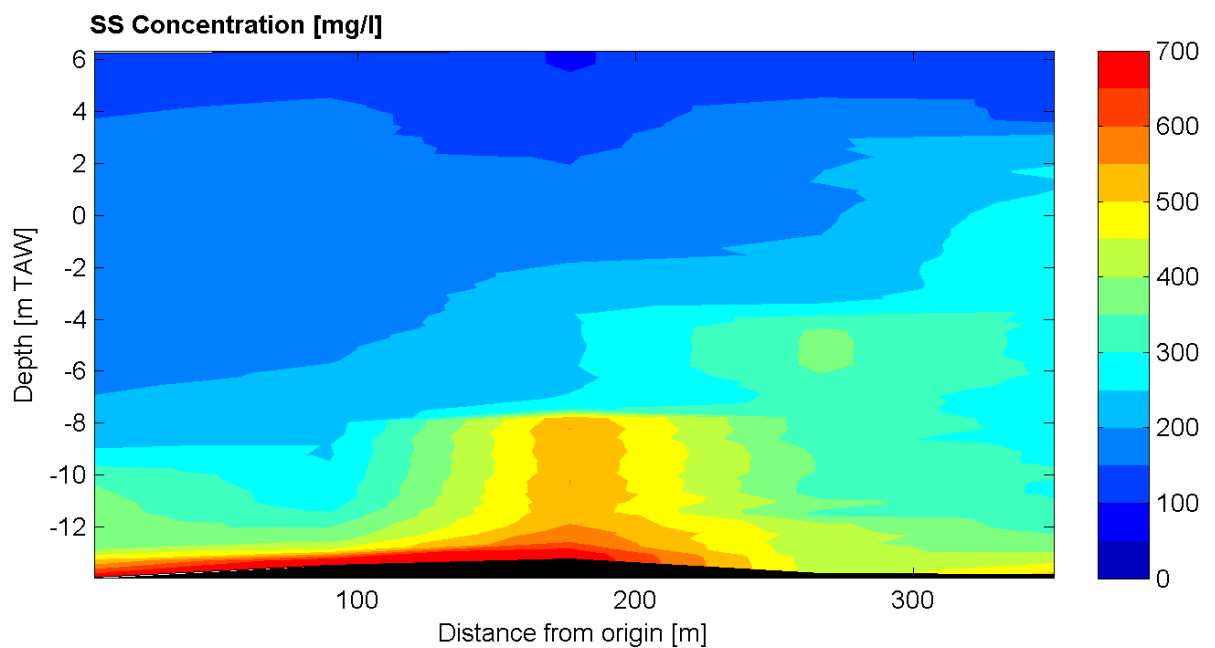
SiltProfiler

Sourcefile:

4143Xa.sil - 4139Xe.sil

Location:

Deurganckdok



Slack water:

06:00:	h = 6.49 m+TAW
18:20:	h = 6.36 m+TAW
13:00:	h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

18:49 - 18:31

Time after HW [HH:MM]

0:20

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

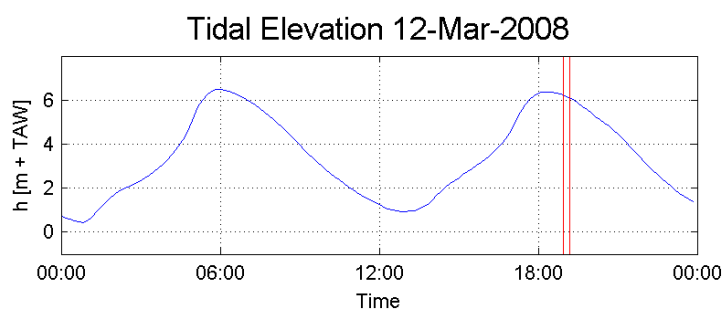
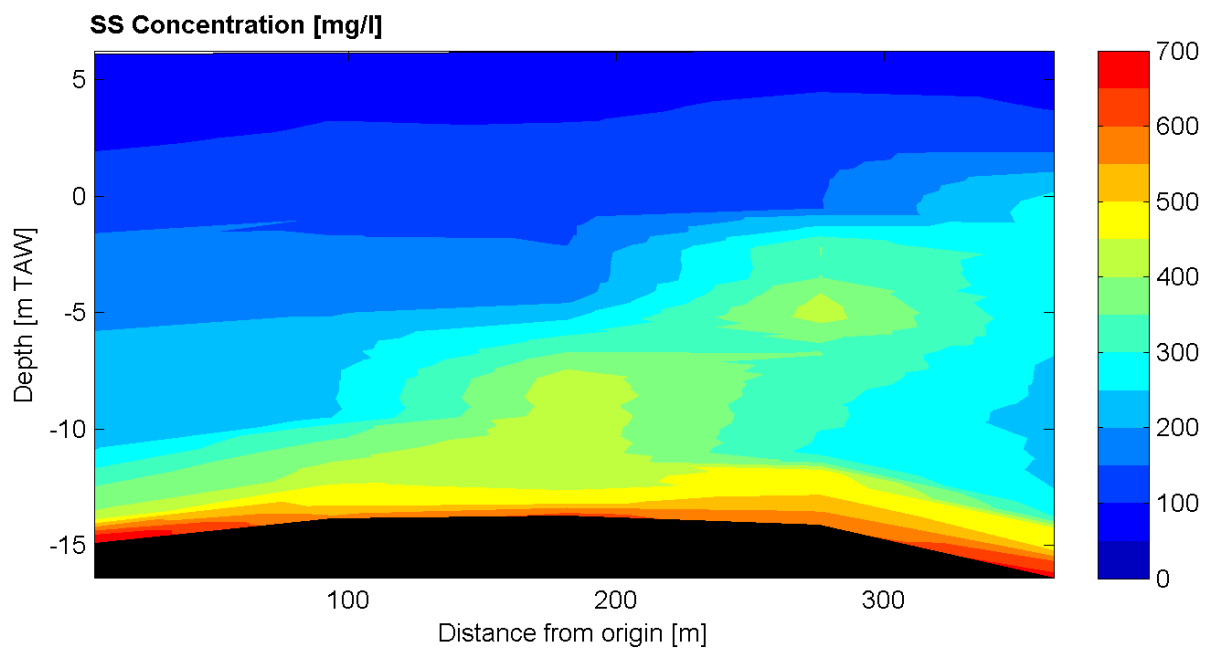
SiltProfiler

Sourcefile:

4148Ya.sil - 4144Ye.sil

Location:

Deurganckdok



Slack water:

06:00: h = 6.49 m+TAW

18:20: h = 6.36 m+TAW

13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

19:11 - 18:56

Time after HW [HH:MM]

0:44

Data Processed by:

In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

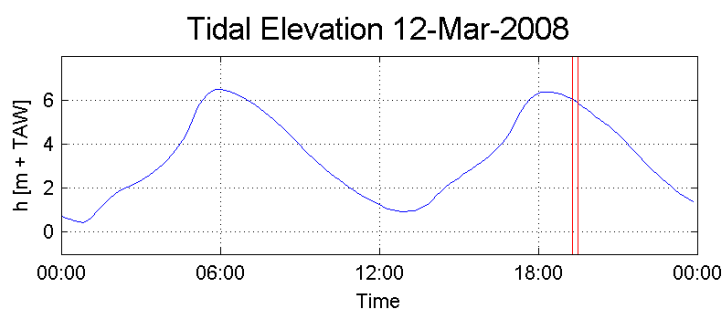
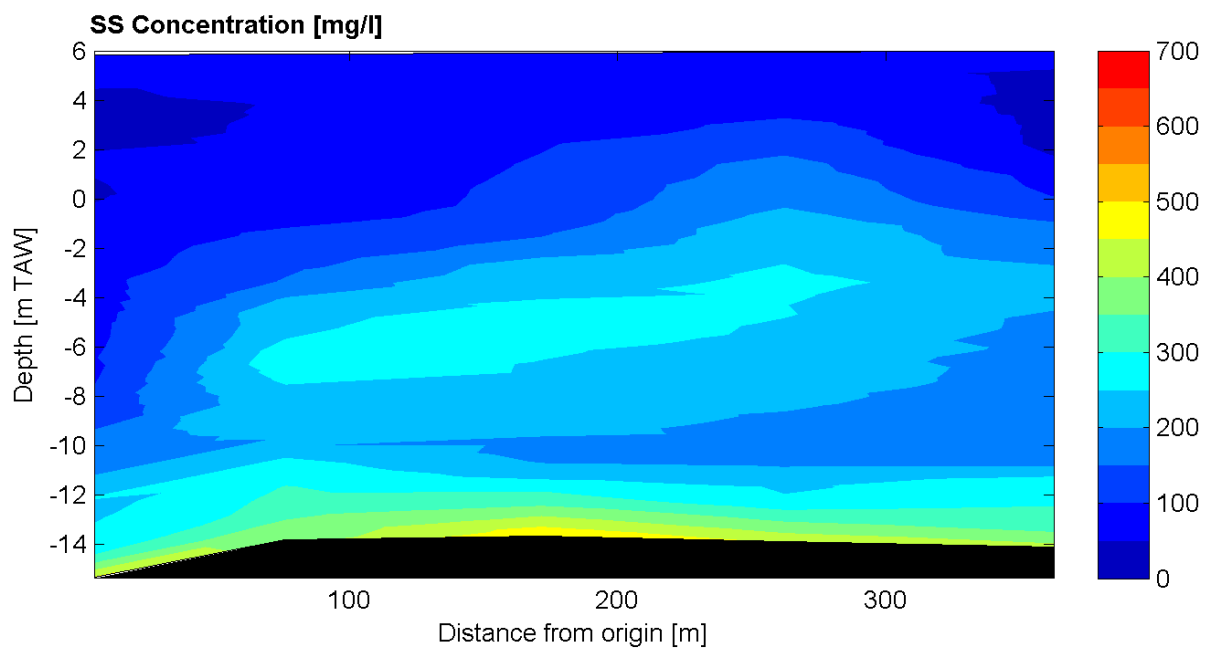
SiltProfiler

Sourcefile:

4153Za.sil - 4149Ze.sil

Location:

Deurganckdok



Date / Time [MET] :

12-Mar-2008

19:30 - 19:18

Time after HW [HH:MM]

1:04

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

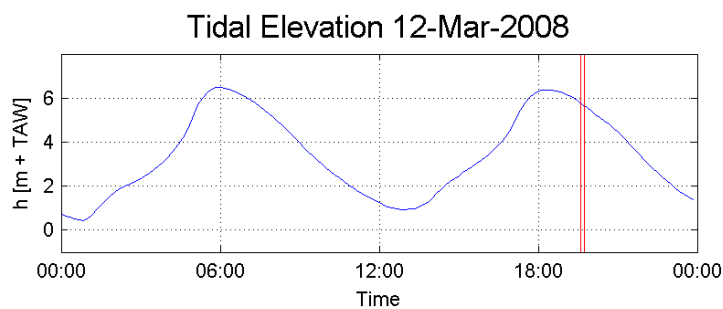
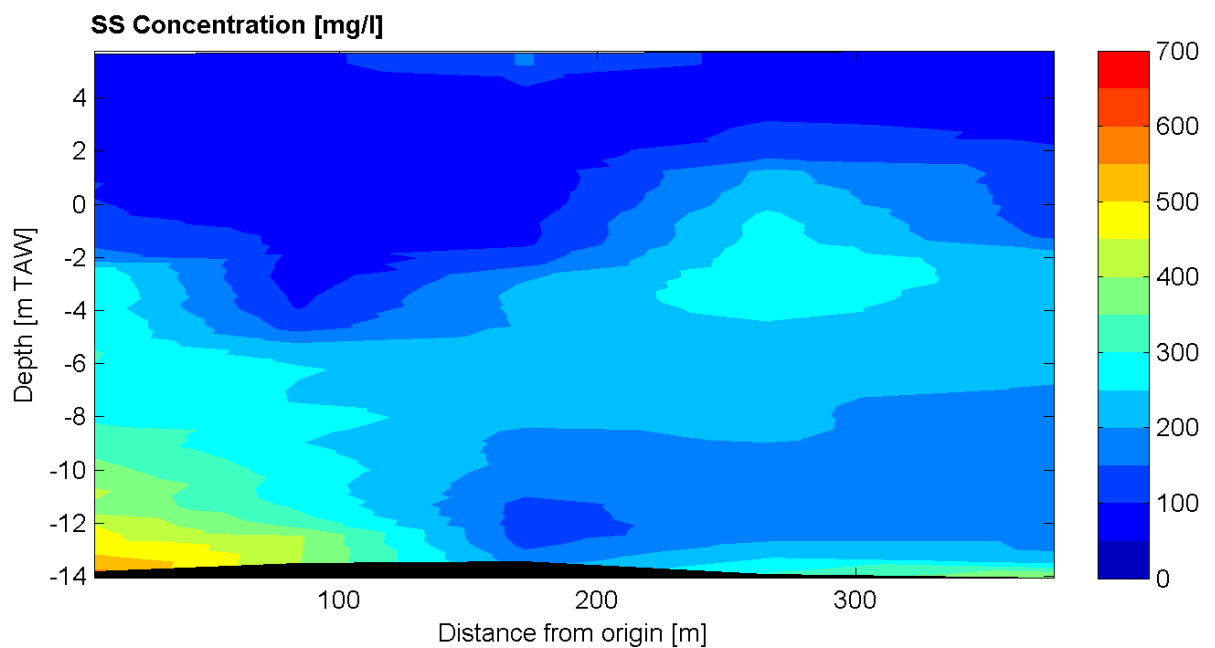
SiltProfiler

Sourcefile:

4158Xa.sil - 4154Xe.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

19:44 - 19:36

Time after HW [HH:MM]

1:20

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

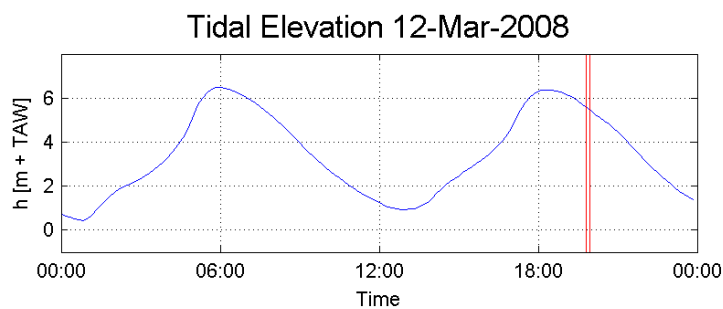
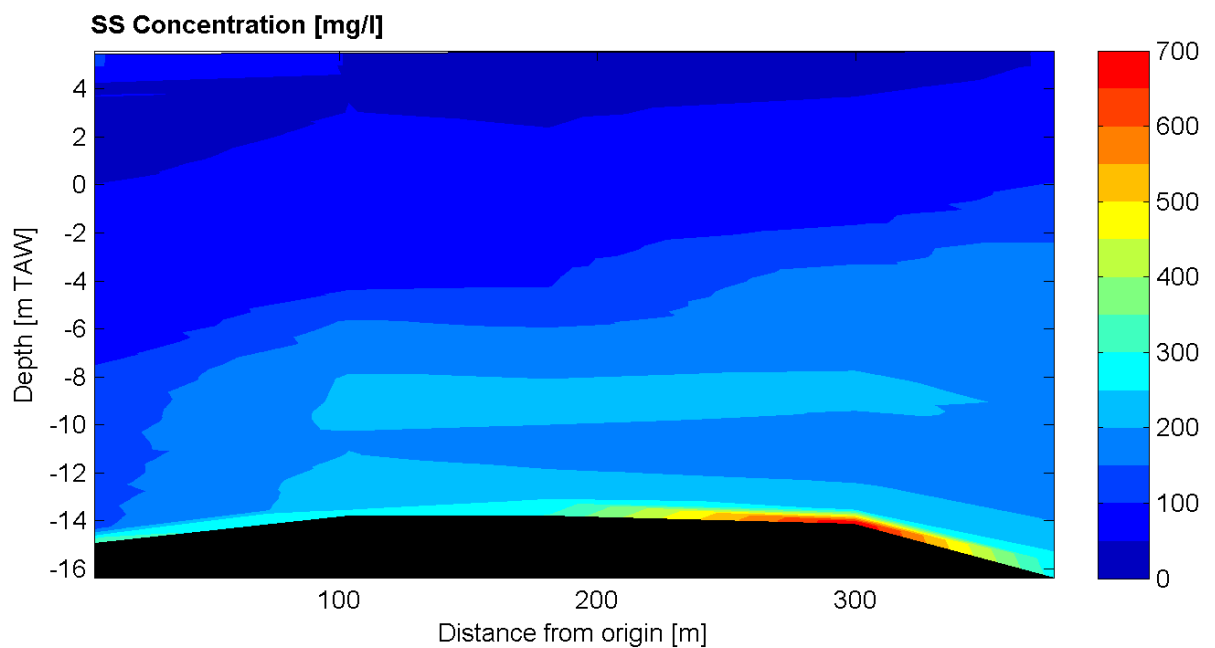
SiltProfiler

Sourcefile:

4163Ya.sil - 4159Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

19:57 - 19:48

Time after HW [HH:MM]

1:32

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

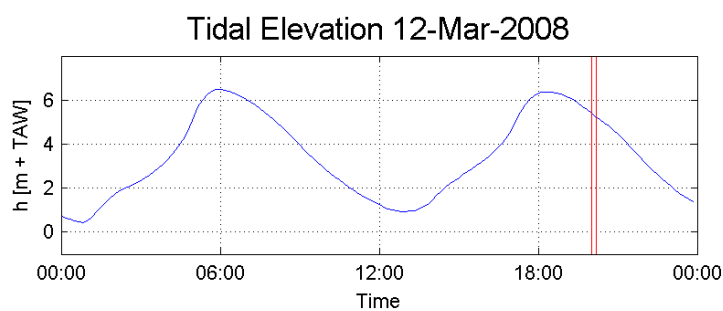
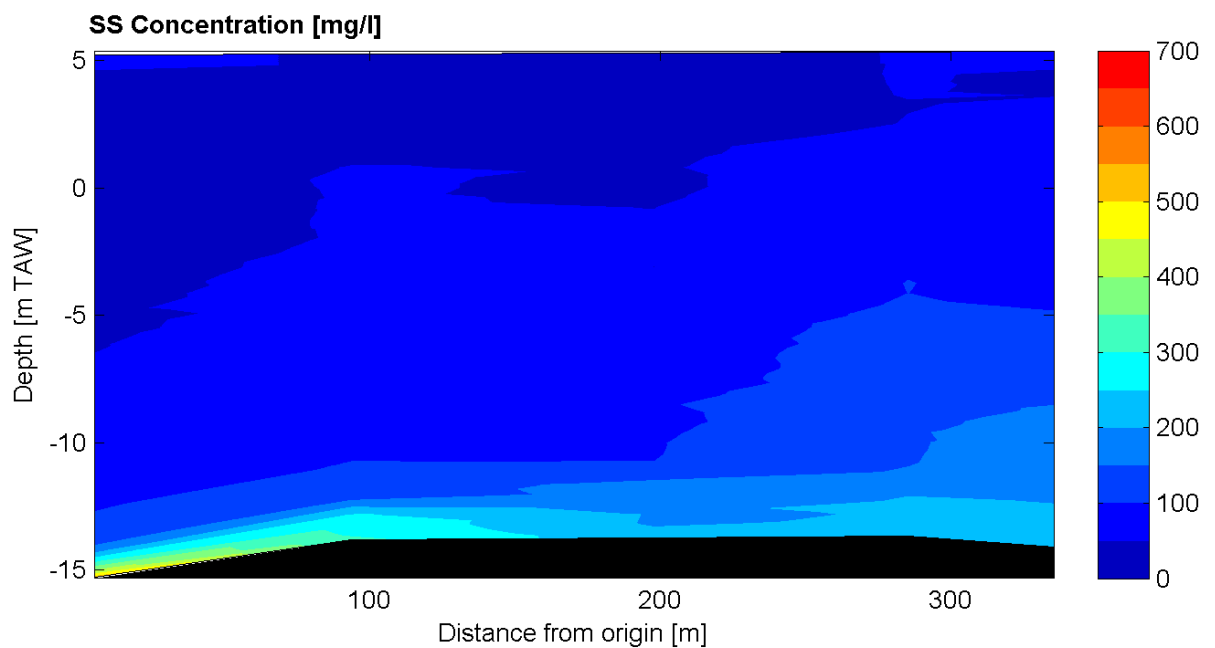
SiltProfiler

Sourcefile:

4168Za.sil - 4164Ze.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

20:10 - 20:01

Time after HW [HH:MM]

1:46

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

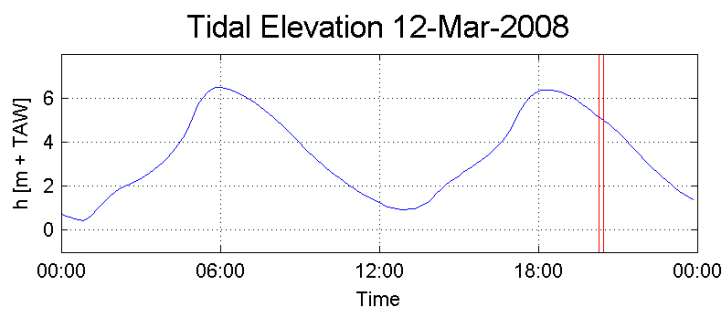
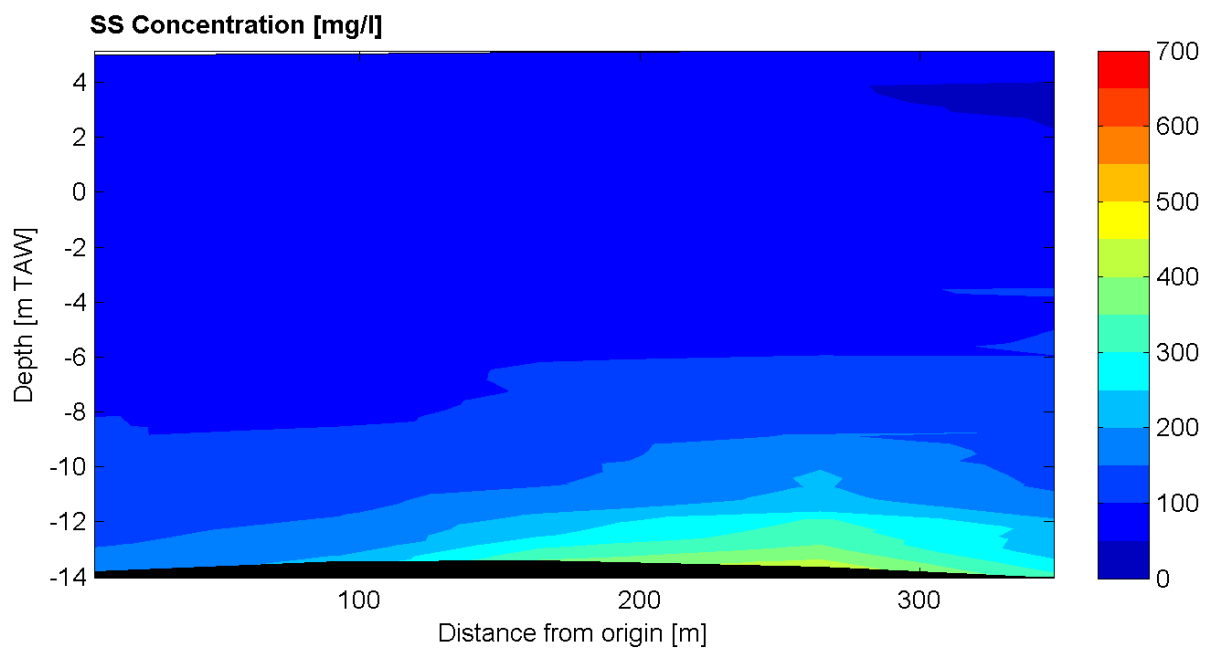
SiltProfiler

Sourcefile:

4173Xa.sil - 4169Xe.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

20:27 - 20:17

Time after HW [HH:MM]

2:02

Data Processed by:



In association with :



I/RA/11283/07.091/MSA



# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

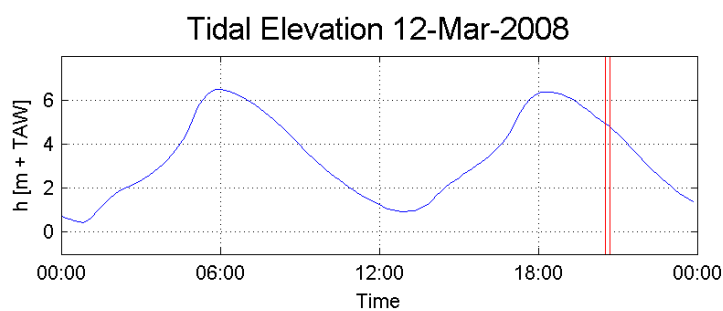
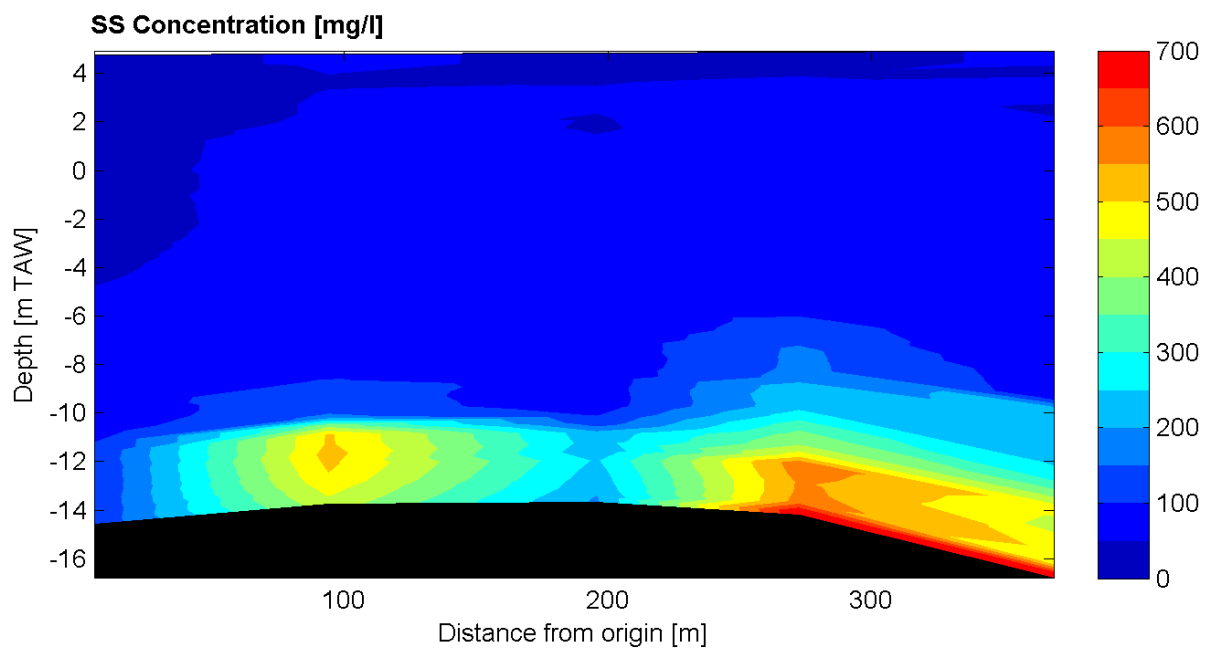
SiltProfiler

Sourcefile:

4178Ya.sil - 4174Ye.sil

Location:

Deurganckdok



Slack water: 06:00: h = 6.49 m+TAW  
18:20: h = 6.36 m+TAW  
13:00: h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

20:41 - 20:32

Time after HW [HH:MM]

2:17

Data Processed by:



In association with :



I/RA/11283/07.091/MSA

# Through tide measurement Siltprofiler 12 March 2008

11283

Equipment(s):

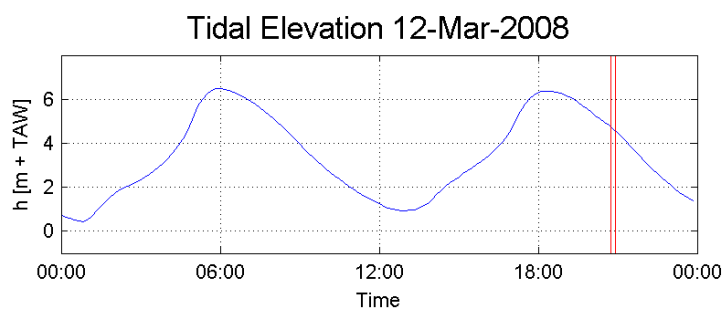
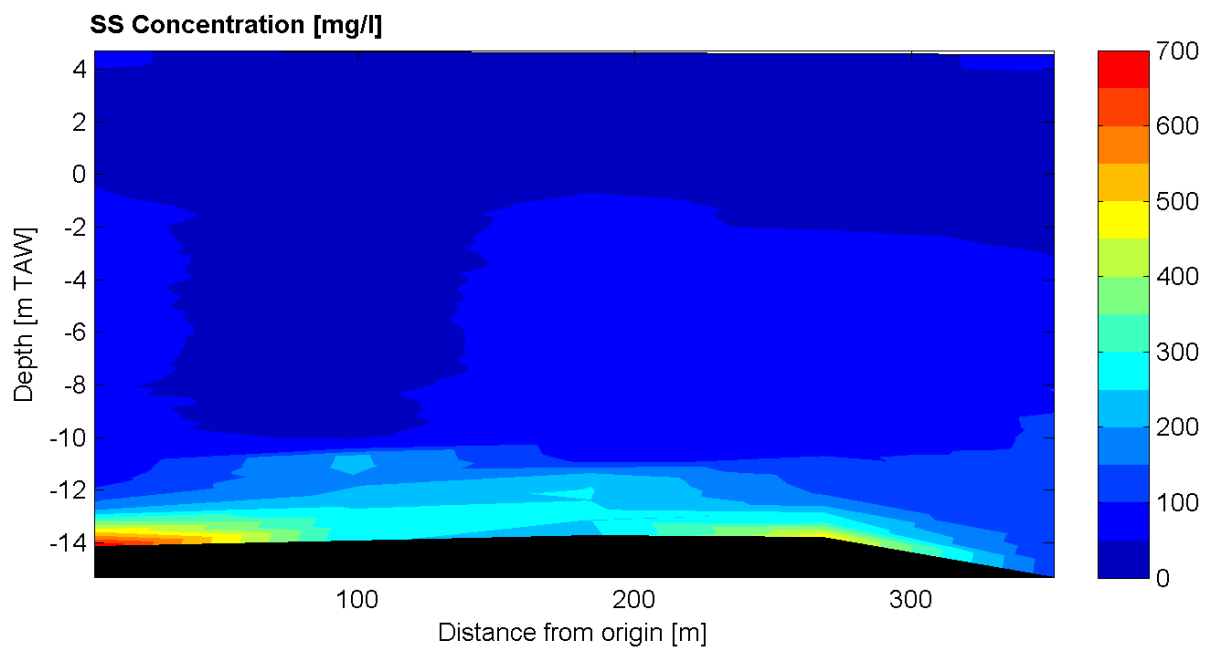
SiltProfiler

Sourcefile:

4179Ze.sil - 4183Za.sil

Location:

Deurganckdok



Slack water:

06:00:	h = 6.49 m+TAW
18:20:	h = 6.36 m+TAW
13:00:	h = 0.93 m+TAW

Date / Time [MET] :

12-Mar-2008

20:45 - 20:54

Time after HW [HH:MM]

2:30

Data Processed by:

In association with :



I/RA/11283/07.091/MSA

# **APPENDIX J.**

## **OVERVIEW OF HCBS2 AND OPVOLGING AANSLIBBING DEURGANCKDOK REPORTS**



Report	Description of HCBS2
<b>Ambient Conditions Lower Sea Scheldt</b>	
5.3	Overview of ambient conditions in the river Scheldt – January-June 2006 (I/RA/11291/06.088/MSA)
5.4	Overview of ambient conditions in the river Scheldt – July-December 2006 (I/RA/11291/06.089/MSA)
5.5	<del>Overview of ambient conditions in the river Scheldt</del> : RCM-9 buoy 84 & 97- (1/1/2007 – 31/3/2007) (I/RA/11291/06.090/MSA) <sup>1</sup>
5.6	Analysis of ambient conditions 21/09/05 - 31/3/2007 (I/RA/11291/06.091/MSA)
<b>Calibration</b>	
6.1	Winter Calibration (I/RA/11291/06.092/MSA)
6.2	Summer Calibration and Final Report (I/RA/11291/06.093/MSA)
<b>Through tide Measurements Winter 2006</b>	
7.1	21/3 Scheldewacht – Deurganckdok – Salinity Distribution (I/RA/11291/06.094/MSA)
7.2	22/3 Parel 2 – Deurganckdok (I/RA/11291/06.095/MSA)
7.3	22/3 Laure Marie – Liefkenshoek (I/RA/11291/06.096/MSA)
7.4	23/3 Parel 2 – Schelle (I/RA/11291/06.097/MSA)
7.5	23/3 Laure Marie – Deurganckdok (I/RA/11291/06.098/MSA)
7.6	23/3 Veremans Waarde (I/RA/11291/06.099/MSA)
<b>HCBS Near bed continuous monitoring (Frames)</b>	
8.1	Near bed continuous monitoring winter 2006 (I/RA/11291/06.100/MSA)
<b>INSSEV</b>	
9	Settling Velocity - INSSEV summer 2006 (I/RA/11291/06.102/MSA)
<b>Cohesive Sediment</b>	
10	Cohesive sediment properties summer 2006 (I/RA/11291/06.103/MSA)
<b>Through tide Measurements Summer 2006</b>	
11.1	Through Tide Measurement Sediview and Siltprofiler 27/9 Stream - Liefkenshoek (I/RA/11291/06.104/MSA)
11.2	Through Tide Measurement Sediview 27/9 Veremans - Raai K (I/RA/11291/06.105/MSA)
11.3	Through Tide Measurement Sediview and Siltprofiler 28/9 Stream - Raai K (I/RA/11291/06.106/MSA)
11.4	Through Tide Measurement Sediview 28/9 Veremans – Waarde (I/RA/11291/06.107/MSA)
11.5	Through Tide Measurements Sediview 28/9 Parel 2 - Schelle (I/RA/11291/06.108/MSA)

<sup>1</sup> The data, foreseen for Report 5.5 is reported in report 3.1. Boundary conditions: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.127/MSA) including HCBS 2 report 5.5 (Deurganckdok).

Report	Description of HCBS2
<b>Ambient Conditions Lower Sea Scheldt</b>	
11.6	Through Tide measurement Longitudinal Salinity Distribution 26/9 Scheldewacht – Deurganckdok (I/RA/11291/06.161/MSA)
<b>Analysis</b>	
12	Report concerning the presence of HCBS layers in the Scheldt river (I/RA/11291/06.109/MSA)

Report	Description of Opvolging aanslibbing Deurganckdok between April 2006 till March 2007
<b>Sediment Balance: Bathymetry surveys, Density measurements, Maintenance and construction dredging activities</b>	
1.1	Sediment Balance: Three monthly report 1/4/2006 – 30/06/2006 (I/RA/11283/06.113/MSA)
1.2	Sediment Balance: Three monthly report 1/7/2006 – 30/09/2006 (I/RA/11283/06.114/MSA)
1.3	Sediment Balance: Three monthly report 1/10/2006 – 31/12/2006 (I/RA/11283/06.115/MSA)
1.4	Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.116/MSA)
1.5	Annual Sediment Balance (I/RA/11283/06.117/MSA)
1.6	Sediment balance Bathymetry: 2005 – 3/2006 (I/RA/11283/06.118/MSA)
<b>Factors contributing to salt and sediment distribution in Deurganckdok: Salt-Silt (OBS3A) &amp; Frame measurements, Through tide measurements (SiltProfiling &amp; ADCP)</b>	
2.1	Through tide measurement Siltprofiler 21/03/2006 Laure Marie (I/RA/11283/06.087/WGO)
2.2	Through tide measurement Siltprofiler 26/09/2006 Stream (I/RA/11283/06.068/MSA)
2.3	Through tide measurement Sediview spring tide 22/03/2006 Veremans (I/RA/11283/06.110/BDC)
2.4	Through tide measurement Sediview spring tide 27/09/2006 Parel 2 (I/RA/11283/06.119/MSA)
2.5	Through tide measurement Sediview average tide 24/10/2007 Parel 2 (I/RA/11283/06.120/MSA)
2.6	Salt-Silt distribution & Frame Measurements Deurganckdok 13/3/2006 – 31/05/2006 (I/RA/11283/06.121/MSA)
2.7	Salt-Silt distribution & Frame Measurements Deurganckdok 15/07/2006 – 31/10/2006 (I/RA/11283/06.122/MSA)
2.8	Salt-Silt distribution & Frame Measurements Deurganckdok 12/02/2007 – 18/04/2007 (I/RA/11283/06.123/MSA)
2.9	Calibration stationary equipment autumn (I/RA/11283/07.095/MSA)

Report	Description of Opvolging aanslibbing Deurganckdok between April 2006 till March 2007
<b>Boundary Conditions: Upriver Discharge, Salt concentration Scheldt, Bathymetric evolution in access channels, dredging activities in Lower Sea Scheldt and access channels</b>	
3.1	Boundary conditions: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.127/MSA) including HCBS 2 report 5.5
3.2	<del>Boundary conditions: Annual report (I/RA/11283/06.128/MSA)<sup>2</sup></del>
<b>Analysis</b>	
4.1	Analysis of Siltation Processes and Factors (I/RA/11283/06.129/MSA)

<sup>2</sup> considered in report 5.6 'Analysis of ambient conditions during 2006' (I/RA/11291/06.091/MSA) in the framework of the study 'Extension of the study about density currents in the Beneden Zeeschelde'